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# The CHEMIST AND DRUGGIST

RETAILER - WHOLESALE - MANUFACTURER

Founded 1859

28 Essex Street, Strand, London, W.C.2

Registered as a Newspaper

46  
LV

FEBRUARY 23, 1946

Annual Subscription (with  
Diary) 25/- Single copies 9d.

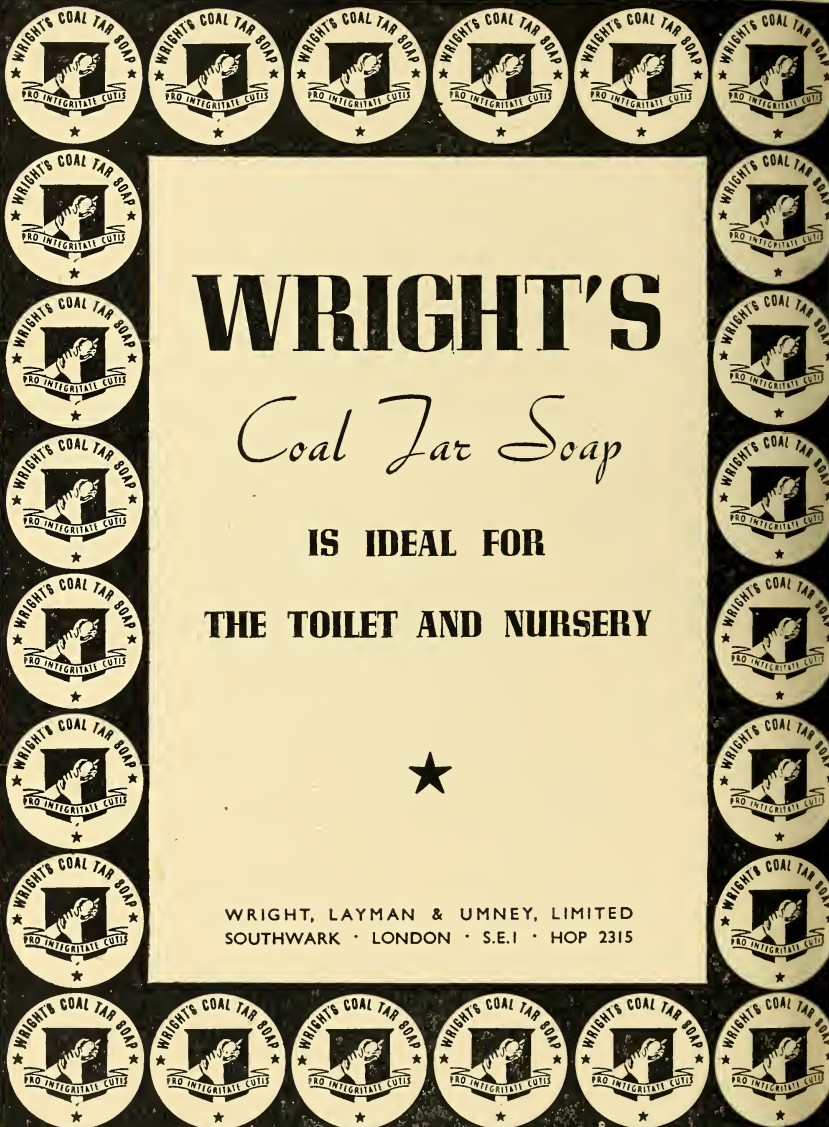


## A Professional Responsibility

The first apothecary's shop was established in the thirteenth century for the purpose of compounding and dispensing the medicines prescribed by physicians. From that day to this, the dispensing department has been the distinguishing feature of the pharmacy. It is the hub around which the entire drug industry revolves.

Since their inception in 1876, quality of product has been the first consideration in the Lilly Laboratories. Every possible precaution is employed to make Lilly Products the finest the markets of the world afford. They are sold through the drug trade exclusively.

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**WRIGHT'S**  
*Coal Tar Soap*  
**IS IDEAL FOR**  
**THE TOILET AND NURSERY**

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## Once upon a time . . .

there was an annual gathering of the chemical trade at the B.I.F. But that was a long time ago, seven years in fact, years so crammed with events affecting our whole civilisation that it seems strangely far away—like a fairy tale.

Though the war is ended it seems that we shall have to wait another year for the return of the B.I.F. The 1947 Exhibition is an event which we eagerly anticipate for the opportunities it will give for meeting our customers.

Meanwhile we wish to be remembered to all our friends whom present circumstances prevent us from seeing personally.

**MONSANTO CHEMICALS LIMITED**  
VICTORIA STREET, LONDON, S.W.1, GREAT BRITAIN

Telephone: Victoria 2255

Telegrams: Monsanto, Sowest, London

Cables: Monsanto, London  
A1105

# THIOURACIL AND METHYL THIOURACIL

for the treatment of hyperthyroidism and thyrotoxicosis is supplied in tablets of 0.2, 0.1, and 0.05 gm. in bottles of 100, 500 and 1000 tablets.

*Information on the above and other « WB » products sent on request*



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**CURTIS & CO. LTD.**

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TRADE



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**WARD, BLENKINSOP**  
**& CO LTD**

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**BROOKLANDS**  
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• **HALEWOOD** •

**LIVERPOOL**  
DUO-CHEM L'POOL



Sally and Anthony John"

*Crookes*

# Halibut Oil Window Displays

Our comprehensive advertising campaign for Crookes Halibut

Oil is now in full swing and, as usual, our advertisements inform the public that Crookes products are 'obtainable only from chemists'.



After a lapse of five years we are again able to offer you a direct link with our advertising in the form of full window displays.

The display centres round our well-known showcard "Sally and Anthony John" together with descriptive and other decorative material.

*This set display will be installed by Messrs. The Window Display Co. and chemists wishing to have their windows dressed are invited to apply direct, or through our representatives.*

Help the National economy effort by sending regular stock orders. Local wholesalers will meet all other demands.



## FOR ORAL MEDICATION

### KERFOOTS Proflavine LOZENGES

enable the affected tissues  
to be bathed in a naturally  
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Each contains  
Proflavine Sulphate 3 mg.  
In bottles of 36 and 500  
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Usual Terms



### KERFOOTS Sulphanilamide LOZENGES

are of special value in  
throat affections due to local  
streptococcal infection.

Each contains  
Sulphanilamide gr. 1 (S4)  
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KG17a

PROMOTES DEEP  
REFRESHING  
SLEEP

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**BOURN-VITA**  
**NEEDS NO SUGAR**

# INDEX TO ADVERTISERS

A. Ltd.	12
Act. Pill and Tablet Co., Ltd.	xviii
Adv. Supply Co.	Leader Page
er. Ltd.	11
Alb. G. C. & Co., Ltd.	Leader Page
Alle. Millers & Engineering Co., Ltd.	vi
And. Stafford, & Sons, Ltd.	20
on & Reeve, Ltd.	xx
R., & Son, Ltd.	Leader Page
roducts, Ltd.	i
oney Co., Ltd.	xiv
ea. Clark & Co., Ltd.	iv
ea. J. & J., Ltd.	26
rie. Ltd.	xix
rit. Cod Liver Oil (Hull & Grimsby) Ltd.	10
rit. Dental Sticks, Ltd.	12
rit. Drug Houses, Ltd., The	13
rit. Felsol Co., Ltd.	Cover iv
Bro. Appliance Co., Ltd.	viii
Bro. B., & Co.	xviii
Bro. R., & Co.	ii
Bur. -Bowker Tablet Co., Ltd.	iii
Bur. ch, James, Ltd.	Leader Page
Bur. h's Wellcome & Co.	27
Bust. each & Gent, Ltd.	ii
cad. y Bros., Ltd.	4
alt. oe, M., & Co., Ltd.	15, 16
art. e Chemicals (Welwyn), Ltd.	18
he. zht, W. B., Ltd.	6
ne. e Co., Ltd.	12
lay. Abraham, Ltd.	16
lini. Products, Ltd.	14
Coat. & Cooper, Ltd.	iii

Cox, Arthur H., & Co., Ltd.	8
Croda, Ltd.	24
Crompton Parkinson, Ltd.	23
Crookes Laboratories (British Colloids, Ltd.)	3
Cupal, Ltd.	8
Dae Health Laboratories, Ltd.	xii
Dales Aspirin Co.	15
Daniel, Richard, & Son, Ltd.	9
Davenport, J. T., Ltd.	21
Distillers Co., Ltd.	xlii
Drury's Pharmaceuticals, Ltd.	Leader Page
E.N.T. Manufacturing Co., Ltd.	Leader Page
Emsa Works & Herbert Foot Appliance, Ltd.	viii
Energen Foods, Ltd.	xiv
Esco (Rubber), Ltd.	viii
Eucryl, Ltd.	xx
Field & Co. (Aromatics), Ltd.	8
Franks, A., & Bartlett Co., Ltd.	22
Freudenthell, Smith & Co.	Leader Page
Gale & Mount, Ltd.	15
Gleim Shampoo Co.	xxii
Gosheron, John, & Co., Ltd.	xviii
Guest, Thos., & Co., Ltd.	10
Haller Laboratories, Ltd.	xviii
Harvey & Co. (Dublin), Ltd.	xvi
Harwoods Laboratories, Ltd.	5
Health Products Labs., Ltd.	13
Hough, Hoseason & Co., Ltd.	22
Ilex Supply Co., Ltd.	24
Influcol, Ltd.	xxi
International Laboratories, Ltd.	22, ix
Ionic Laboratories, Ltd.	xx

(continued overleaf)

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FOR THE PREVENTION & TREATMENT OF  
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The demand for  
Seroalcin is  
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are still limited

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**INDEX—(contd.)**

Jeffreys, Miller & Co., Ltd.	xviii	Promedico Products, Ltd.	
Johnson & Johnson (G.B.), Ltd.	xxii	Rabok Manufacturing Co., Ltd.	
Jones, W. H., & Co. (London), Ltd.	xvi	Reed Bros. (Engineering) Ltd.	
Kay Bros., Ltd.	13	Rendell, W. J., Ltd.	
Kearsley, C. & G., Ltd.	Leader Page	Reuter, R. J., Co., Ltd.	
Keeling & Walker, Ltd.	iii	Robinson & Sons, Ltd.	
Kerfoot, T., & Co., Ltd.	4	Rodmill Chemical Co., Ltd.	
King, G., & Co.	xiv	Rooney, Robert A., & Sons	
Knox, John, Ltd.	26	Roura & Forgas, Ltd.	
Lemke, B. L. Inc.	xv	Sale, Tilney & Co., Ltd.	
Lilly, Eli, & Co., Ltd.	Front Cover	Sangene, Ltd.	
Liverpool School of Pharmacy	xiii	Savory & Moore, Ltd.	
London & Provincial Factors, Ltd.	xvi	Selto (Eastbourne) Ltd.	
Macdonald, J.	vii	Sessions, W., Ltd.	
Marshall's Proprietaries, Ltd.	26	Sherley, A. F., & Co., Ltd.	
May & Baker, Ltd.	19	Sigal, S., & Co., Ltd.	
Monsanto Chemicals, Ltd.	1	Soft Drinks Industry	
Moore Medicinal Products, Ltd.	21	Songo	Leader
Napp, H. R., Ltd.	17, Leader Page	Splendor, Ltd.	
National Glass Works (York), Ltd.	v	Stace, M. E., & Co., Ltd.	
Newball & Mason, Ltd.	12	Stemco, Ltd.	
Niblett, C. P.	15	Stretch, Wilfred, & Co., Ltd.	
Optabs, Ltd.	xxi	Surgical Hosiery Co., Ltd.	
Oxo, Ltd.	28	Suter, A. F., & Co., Ltd.	
P.A.C. Chemicals, Ltd.	xvii	Thackray, C. F., Ltd.	
Palestine Potash, Ltd.	ii	Thermogene Co.	
Paragon Razor Co., Ltd.	xix	Twinkle Headache Powders	Leader
Pascall Engineering Co.	iv	Velvet Crepe Paper Co., Ltd.	
Percepta, Ltd.	12	Ward, Blenkinsop & Co., Ltd.	
Pharmaceutical Specialities (May & Baker), Ltd.	Cover iii	Watford Chemical Co., Ltd.	
Pharmax, Ltd.	9	Westminster Laboratories, Ltd.	
Porosan Co., Ltd.	xvi	White, J. F., & Co., Ltd.	
Porteus, Geo., & Sons (Leeds), Ltd.	xiii	Wilson Meats, Ltd.	
Potter & Clarke, Ltd.	25	Winox	
		Wright, Layman & Umney, Ltd.	Co
		Zeal, G. H., Ltd.	
		Zems, Ltd.	

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75 Tablets retail 3s. 4d. including tax.

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3 dozen and over 2s. plus tax  
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Display these attractive new packs on your counter and reap the benefit from our consistent advertising and growing sales.

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*Since 1839*

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*Manufacturing Chemists*

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PACKED SPECIALITIES**

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(POWDER & LIQUID)**

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**POWDER . 1/3 & 10/-**

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**It's Illegal—**

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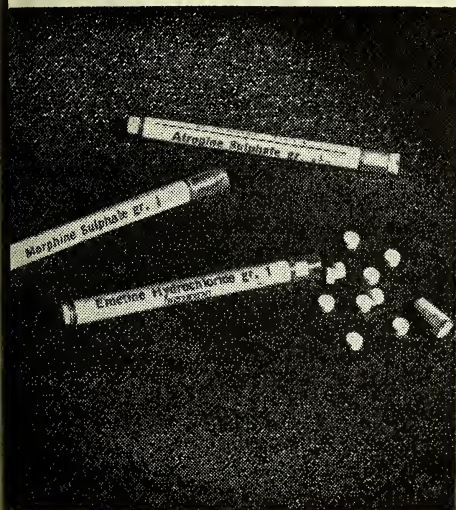
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## Where precision is imperative . . .



In his surgery, hospital ward or in the field, the clinician demands accuracy of dosage and purity of drug. All our hypodermic tablets are manufactured with the utmost precision and complete reliance can be placed on our extensive range.



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Brand

## PRODUCTS

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SONS, LTD. of NEW BARNET



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IBEX HOUSE, MINORIES, LONDON, E.C.3



# Lifeline

Once again Britain has kept the wolf from the door. The nation's thanks are due to the seamen for bringing in so much food during the war years and to the Ministry of Food for seeing that it went where it was most needed. Undoubtedly the children's excellent state of health owes much to the 'official' issue of cod liver oil to 'under-fives' and expectant mothers—a wise and far-sighted move impossible to execute had our sealandes been closed.

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STANDARD OIL: Vitamin A 20,000 I.U.; Vitamin D 2,500 I.U. per oz. CONCENTRATED: Vitamin A 60,000 I.U.; Vitamin D 6,000 I.U. per oz.

BRITISH COD LIVER OILS (HULL & GRIMSBY)  
LIMITED,  
ST. ANDREW'S DOCK, HULL, ENGLAND.

## 'SURE SHIELD'



## Products

Due to shortage of supplies, combined with the curtailment of our staff, we wish to assure our many trade friends that we are using every effort to maintain an equitable distribution of our Products.

### Please Note

- 1st. All Orders are forwarded in strict rotation, and we are now 15 weeks behindhand in delivery.
- 2nd. Due to the position, all additions can only be treated as separate orders.
- 3rd. When writing with reference to an order on hand, please give **exact date** when sent on.

### "SURE SHIELD"

Registered Trade Mark

IODISED THROAT TABLETS  
FRUIT LAXATIVES  
GLYCERINE OF THYMOL  
PASTILLES

PASTILLES LOZENGES  
TABLETS

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Chemists*  
Carruthers Street, Manchester,



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have been appointed  
**SOLE SELLING AGENTS**  
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for ALL FOOT INFECTIONS

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1. combines high antiseptic and fungicidal activity with low tissue toxicity.
2. inhibits bacterial decomposition and perspiration.

**REAR NATIONAL ADVERTISING**  
Gross Profits, Quantity Discounts

2½% for order for 2 doz.

5% for order for 4 doz. and over.



Sold only by qualified Chemists

**PRICES**

Wholesale 16/- per doz.

(8 Purchase Tax) 18/8

Retail 2/3 each,

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**PROFIT TO THE**

**RETAIL TRADE 8/4 per doz. (OVER 33½%)**

Obtainable through your usual wholesaler or direct from sole distributors.

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**AERO-PED LTD., 35 BESSBOROUGH PLACE, LONDON, S.W.1**

THE CHERITONE COMPANY  
PRESENT



**CHERITONE Tonic Tablets**  
BUILD BLOOD, BONE AND NERVE  
INVALUABLE IN CASES OF LOSS OF APPETITE

**FORMULA**  
Ferr. Phosph. Sacch. 2.5%  
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Calc. Phosph. 0.5%  
Ol. Asis. 0.7%  
Cocoa 20.0%  
Sucrose ad 100.0%

**2/6 & 5/- PER BOTTLE**  
**AVAILABLE FOR EXPORT**  
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## CONTROL OF HEAD LICE

Nits and Head Lice can now be dealt with quickly and economically without unpleasant evidence of treatment.

An N.W.F. formula now being used extensively by Public Health Authorities.

### Semprolia

BRAND

**MEDICATED (LETHANE) HAIR OIL N.W.F.**  
Insecticide for control of Nits and Head Lice

★

**'SEMPROLIA' MEDICATED (LETHANE) HAIR OIL IS IN URGENT AND RAPIDLY INCREASING DEMAND**

Retail (2-oz.) 1/1½d. including P.T. List 8/- doz  
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for external use

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The Chemists' FAVOURITE for over 75 YEARS

**EXTRACT OF HELL**  
A 9d. bottle makes 6 gallons delicious sparkling Mason's Beer. **GOOD PROFITS—QUICK SALE**

Write for Trade Terms

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Containers of Metal Glass, Aluminium and Plastic.

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# VIKELP

Nutritional Food Tonic

contains **(10)**  
essential Minerals  
and Vitamin B<sub>1</sub>

This perfectly balanced Food Tonic  
can be recommended with every  
confidence in cases of

**TIREDNESS, DEPRESSION,  
LASSITUDE, GENERAL DEBILITY**

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Blackfriars Road, London, S.E.1.

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**Every Cough  
is a Call★  
for**

**KAY'S**  
LINSEED COMPOUND

★ To enable you to  
satisfy more of the  
"calls" at your own  
counter, preference in  
production is given to  
the 1/5 size, and supplies  
of the 3/5 size may be  
intermittent.

## MERSALYL B.D.H.

Mersalyl B.D.H. is a diuretic of high activity and low toxicity; it is indicated in the treatment of oedematous conditions, particularly those complicating cardiac disorders. Modes of issue: in ampoules of 1 c.c. and 2 c.c. of a 10 per cent. solution for intravenous intramuscular injection (Injection of Mersalyl B.P.) and in the form of tablets and suppositories. Mersalyl B.D.H. is being advertised to the medical profession, and pharmacists will be well advised to keep an adequate stock in readiness for all demands.

### PRICES

For parenteral administration.

Box of 6 x 1 c.c. ampoules	Wholesale per doz.	28/-	Retail	3/6
" " 12 x 1 c.c. "	" " "	52/-	"	6/6
" " 6 x 2 c.c. "	" " "	44/-	"	5/6
" " 12 x 2 c.c. "	" " "	84/-	"	10/6

Not subject to Purchase Tax

For rectal administration.

Suppositories containing 0.4 grm. Box of 6 Wholesale per doz. 58/- Retail 7/3

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Tablets containing 0.08 grm. Bottle of 20 Wholesale per doz. 30/- Retail 3/9

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**ANASCABEX:** Non-irritating and non-staining, 24-hour treatment for scabies, ediculosis, etc.; a nicely perfumed organic sulphide cream

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W.1

Telegrams : Watchempro, Wesdo, London

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of Booklets**

**HUNDREDS of  
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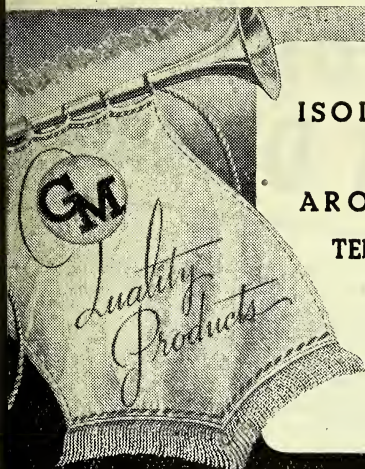
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hundreds  
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thousands  
of bottles  
of

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 THAT PAYS YOU TO STOCK

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 I. CALTHORPE & CO. LTD.  
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 SOLE DISTRIBUTORS

POWDERS  
 AND  
 TABLETS

DR. NIBLETT'S  
**VITAL RENEWER**  
 NERVE SEDATIVE

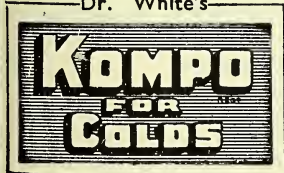
TRADE TERMS—33½% to Chemists or  
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Retail Price 5/- per bottle, including tax

Prepared by **C. P. NIBLETT** Est. 1870

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Dr. White's



Manufactured only by

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**Compressed  
 TABLET SERVICE**

WHOLESALE & EXPORT

Reasonable estimates.  
 Clients' own material operated if desired.

The ...  
**DALES ASPIRIN AND TABLETING CO.**  
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# Always in GREAT DEMAND

This strongly advertised non-alcoholic tonic is a sure seller now and will be a big stand-by in future.

NO LICENCE REQUIRED

Sold by all good Chemists and Stores

Price 5/- & 3/-

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Manufacturing Chemists, OSSETT



# VIRONITA

VYRO-NIGHT-A  
TONIC & RESTORATIVE

A Canada

CANDA

Product

REGD TRADE MARK

# EPHEDROL

BRAND

*A standard remedy for  
COLDS and CATARRH*

Recommend Ephedrol with confidence and profit this Winter. Your customers will appreciate the quick relief it gives.

The patent nasal application bottle is infinitely better, safer and easier than a spray or dropper, and can be carried in handbag or pocket without fear of leakage.

**RETAIL PRICES** 1/8 and 3/4  
Including Purchase Tax

**TRADE PRICES**  
Excluding Purchase Tax

**Small size** 1 doz. 12/- per doz.  
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**Large size** 1 doz. 23/- per doz.  
3 doz. 22/- per doz.

CLAY & ABRAHAM LTD., Manufacturing Chemists, LIVERPOOL, 1.

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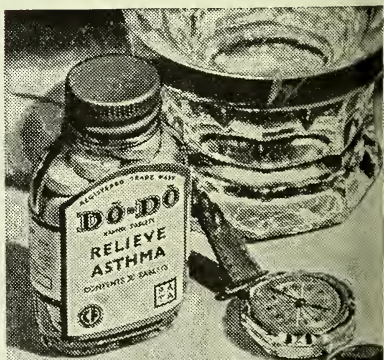
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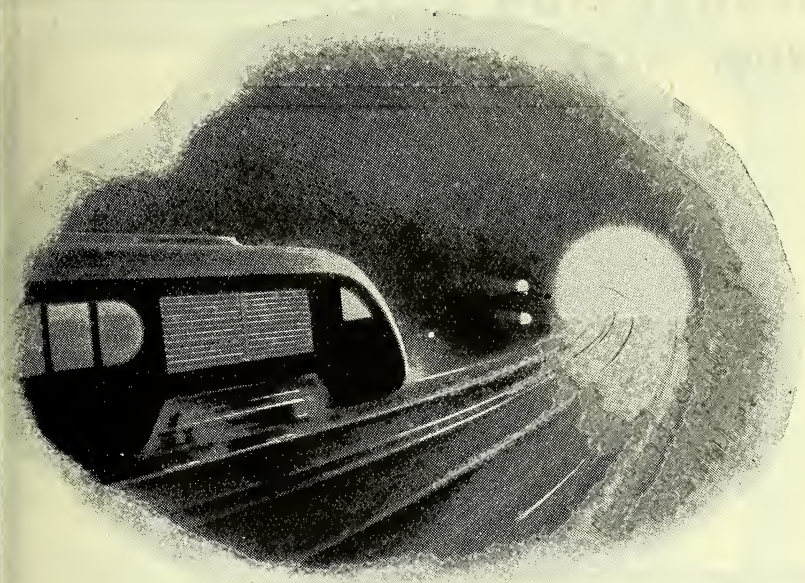
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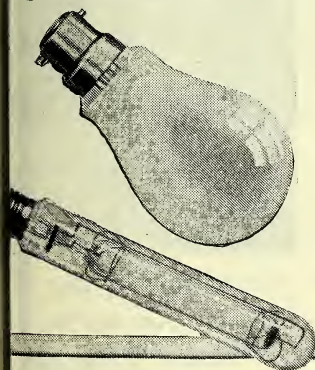
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## CONTENTS

	Page		Page
Antibiotics Tabulated .. ..	236	News in Pictures .. ..	241
Baking Explained to Chemists ..	240	News of the Week .. ..	225
Business Changes .. ..	235	Overseas Trade News .. ..	250
Chemists' Friends Association ..	236	Personalities .. ..	233
Cong Events .. ..	231	Pharmaceutical Society of Northern Ireland : Council Meeting ..	247
Company News .. ..	233	Proprietary Articles Trade Association ..	235
Correspondence .. ..	249	Poisons Board .. ..	249
Deaths .. ..	232	Therapeutic Progress During the War ..	238
Editorial Articles :—		The Week in Parliament .. ..	230
An Unfortunate Precedent .. ..	243	Topical Reflections .. ..	229
A Testimonial to Teamwork .. ..	243	Trade Marks .. ..	256
The Trend is Up .. ..	244	Trade Notes .. ..	234
Statistics at a Glance .. ..	244	Trade Report .. ..	251
Death from DDT Insecticide .. ..	246	Transactions in Photographic Goods ..	228
Labour's Health Plans Outlined ..	245		

## NEWS OF THE WEEK

**Reinstatement a Domestic Measure.**—An employer under the Civil Employment Act has given his opinion that the Reinstatement Act does not apply to employment outside the United Kingdom. The decision arose out of an appeal by a person formerly employed in Singapore for reinstatement in his old employment.

**Ministry's Note on Bottles.**—A Press note issued by the Ministry of Health on February 16 draws attention to the present shortage of medicine bottles. The Ministry states that the Board of Trade and the Ministry of Health are jointly doing their utmost to secure priority for the production of medicine bottles, and urges the public to co-operate by returning empty bottles immediately to doctors or chemists.

**Evidence on Shop-closing Hours.**—The Committee of Inquiry into the closing hours of shops, recently appointed by the Home Secretary and the Secretary for Scotland, has announced that memoranda of evidence relating specifically to the closing hours of shops should be submitted before the end of

March to the Joint Secretaries, the Home Office, London, or to the Scottish Home Department, St. Andrew's House, Edinburgh. Time and manner of submission of memoranda on the health, welfare and safety of persons in places not regulated by the Factories or Mines and Quarries Acts, and hours of employment of young persons, are to be announced later.

**Departure of Indian Delegation.**—A delegation from the Indian Chemical Manufacturers' Association, which spent some time in London in the latter part of 1945, and recently returned to Britain from a tour of the United States, is now about to proceed home to India. The leader (Dr. K. A. Hamied) presided at a farewell luncheon in London on February 18, when he said the delegation had found that American manufacturers of plant and machinery were in no way more favourably placed to make deliveries than manufacturers in the United Kingdom. In peak production Britain could never be equal to the United States, but, with the natural

resources and man-power of India, combined with the technical and scientific knowledge of Britain, it should be possible to compete both in quality and quantity with any country in the world. Speeches expressing readiness to co-operate were made by Mr. L. P. O'Brien (chairman, Association of British Chemical Manufacturers), Mr. Keith Fraser (British Chemical Plant Manufacturers' Association) and Sir Frederick Bain (formerly chairman of the Chemical Control Board, Ministry of Supply).

**Fire Damage at Works.**—The upper story of the premises occupied by the Marvis Chemical Manufacturing Co., Ltd., Luton, were recently destroyed by fire.

**Commercial Travellers' Appeal.**—The grand total of contributions received in connexion with the centenary appeal of the Royal Commercial Travellers' Schools was £51,981. The target was £50,000.

**Commercial Reviews.**—Reviews of current commercial conditions in India (price one shilling) and in the Union of South Africa (price sixpence) have been issued by H.M. Stationery Office, Kingsway, London, W.C.2.

**Penicillin Lecture at Blackburn.**—A lecture on "Penicillin" was given by Dr. R. J. Eadie to members of North-east Lancashire Branch of the Pharmaceutical Society, on February 11, Mr. E. A. Eccles (president) in the chair. Afterwards the speaker answered a number of questions.

**Plastics Demonstration.**—Dundee and East and Central Scottish Branch of the Pharmaceutical Society met in Dundee on February 21, when a lecture and demonstration on "Plastics" was given by Mr. R. Roger, B.Sc. (lecturer in chemistry, University College, Dundee).

**Newcastle Film Show.**—A meeting of the Newcastle District and Northumberland Branch of the Pharmaceutical Society was held on February 7, when a Ministry of Information film show was given to an appreciative audience of seventy. The programme included "The Story of DDT" and "Your Child's Ears."

**Middlesbrough Prizewinner.**—At the annual meeting of the Middlesbrough Pharmacists' Association recently, the J. C. Thompson Memorial prize (a cheque, value £2 2s., presented to the most capable student from the Constantine Technical College, Middlesbrough) was awarded to Mr. J. Goldstein. The prize is in memory of the late Mr. J. C. Thompson, M.P.S., one of the founders of the Association.

**Scientists and Unesco.**—Speaking at a conference organised by the Association of Scientific Workers in London recently, Dr. Julian Huxley (executive secretary of the United Nations Educational, Scientific and Cultural Organisation) hoped there would be a strong representation on Unesco of applied and industrial science, which should stand strongly against any idea of scientific secrecy.

**Photographic Progress Reviewed.**—Mr. R. H. Bomback (secretary of the research laboratories, Kodak, Ltd.) addressed the Harrow Branch of the Pharmaceutical Society on February 12 on "Recent Applications of Photography." He dealt mainly with war-time photographic developments, such as aerial photography, industrial and medical radiography, infra-red and ultra-violet photography. The lecture was illustrated with lantern-slides.

**Fleming's Experiment Demonstrated.**—A lecture on "Chemotherapy" and a demonstration experiment, accompanied by an exhibition of moulds, cultures and equipment, was given at Dundee University recently by Dr. R. P. Cook (lecturer in biochemistry). The lecturer outlined the scope and nature of the material demonstrated by slides and actual examples of the nature of the drugs involved. A repetition of Prof. Fleming's original experiment was also performed.

**Liverpool Export Luncheon.**—The annual luncheon of the Liverpool Branch of the Institute of Export took place on January 30, when the principal guest was Pakenham (representative of the House of Trade in the House of Lords). Afterwards a party that included Lord Pakenham toured the Speke estate, taking new penicillin factory, and the new shops of Evans' Medical Supplies, Ltd., which they were welcomed by Mr. Sendall and Davenport.

**Bath Talk on Siam.**—At a meeting of the Bath Branch of the Pharmaceutical Society on February 13, Mr. A. H. Hale spoke of his twenty years' residence in Siam. He had been surprised to find on arrival he said, that the British dispensary was a modern ferro-concrete building larger than any pharmacy in Bath. Prescription books to be copied in Chinese, Siamese and Malay. His first job was to superintend the making of 1,000 elephant tonic about the size of golf balls, each containing gr. 4 of arsenic and dr. 1 of powdered vomica.



**Refresher Course at Oldham.**—The first series of twelve lectures which have been arranged at the Oldham Municipal College as a refresher course for pharmacists was given by Mr. W. J. Eck, M.P.S. (Evans' Biological Institution "Pharmacists and Modern Biological Products." On January 16, Dr. [unclear] also of the Institute, lectured on "Preparation of Antigens and Antibodies"; Mr. R. A. Taggart, B.Sc., spoke on January 23 on "Biological Testing of Antigens and Antibodies."

**Colloids in Medicine.**—There was a large attendance at the meeting of the West Ham Eastern District Association of Pharmacists and Branch of the Pharmaceutical Society on February 12, when Mr. E. W. Goring (British Colloids, Ltd.) spoke on "Colloids in Medicine," illustrated by three films. The first film depicted Brownian movement and the others traced the development of colloidal chemistry and the advantages of colloidal solutions in therapeutics and pharmacy. In proposing a vote of thanks, Mr. W. H. Cloud spoke of his personal experiences in dispensing colloidal solutions, whilst Mr. S. T. James, who supported the vote, congratulated Mr. Goring on his election as chairman of the Chemists' Friends Association.

**Hull Chemists' Dinner.**—As president of the Hull Chemists' Association, Mrs. E. A. Brethurst welcomed her husband as a representative of the Council of the Pharmaceutical Society at the Association's Victory dinner and dance, held in Hull on January 25. Proposing "The Pharmaceutical Society of Great Britain," Mrs. Brethurst recalled that her husband had preceded her in office in the local association in 1939. "For over a hundred years our Society has combined with substantial success its obligations under the Pharmacy Act and the objects of its own Charter," she said. "Soon the new Health Service Bill will be before Parliament and Mr. Arthur Bevan has said it will give to the people a health service second to none. As citizens and pharmacists we wait for the provision of such a health service with keen interest." Alderman J. W. Tristram of Liverpool (a member of the Society's Council and chairman of the Joint Committee) replied. He said the public must have first consideration in the National Health Service. "The chemist is the friend of the majority of his customers, and you will be giving the public a poor exchange if you deprive them of the ser-

vices of the chemists' shops and direct them to the pharmacists' section in a health centre, however elaborate that may be," he said. "Our guests" was proposed by a past-president (Miss E. B. Palmer, M.P.S.), who expressed the hope that there would continue to be mutual respect and cordial understanding between the medical profession and pharmacists. The sheriff (Councillor H. W. Jackson) replied. The occasion coincided with "Burns' Night," and Alderman Tristram made suitable allusion to the Scottish ancestry of the hostess. Also among the guests were Mr. H. Steineman (a member of the National Pharmaceutical Union Executive) and Mrs. Steineman; Messrs. R. Mountain (secretary of the Insurance Committee), and F. Trippett (president, Hull Rotary Club), and Drs. D. Hyslop, P. Science and E. M. Dearn. Officials of the Association present included Mr. F. N. Harrison (treasurer) with Mrs. Harrison, and Mr. Bernard Foster (secretary) to whom congratulations on his recent marriage were extended. (Picture, p. 241.)

## "ESSENTIAL WORK" CHANGES

THE Ministry of Labour and National Service have informed bodies representing the employers and workers concerned that one hundred industries or parts of industries will be withdrawn at the end of three months from the scope of the Essential Work Orders. Among them are industries and parts of industries shown below. Apart from a few cases in which notices of descheduling have already been issued, notices will be issued not later than April 15 to all individual undertakings to be descheduled, giving them at least a month's notice of descheduling. Until individual descheduling takes effect, the provisions of the Essential Work Orders remain in force for all employers and workers in scheduled undertakings.

China clay	ing elements and
Drug trade (wholesale)	switches; glazed tiles and stone-ware)
Glucose, invert and brewing sugar	Rubber and rubber products (but not rubberised clothing and textiles)
Laboratory porcelain	Soap manufacture and fat splitting
Magnesium (basic)	Surgical boot and appliances manufacture
Ochre and earth colours, mixing and grinding	Surgical dressing manufacture (including sanitary towels)
Optical manufacture	
Paint and varnish manufacture	
Plastics, moulding and fabricating	
Pottery (excluding ceramics for heat-	

## TRANSACTIONS IN PHOTOGRAPHIC GOODS

DEFENDANTS on thirty-two charges heard at the Liverpool Assizes recently, in connexion with alleged illegal transactions in photographic material, were Frederick James Pettifer, camera manufacturer, Danford Lane, Solihull, Birmingham; Albert Vernon Pettifer, commercial traveller, Chamber Road, Oldham; Robert Andrew (Oldham), Ltd., Prudential Buildings, Union Street, Oldham; the Opaque Roll Film Manufacturing Company, Ltd., Lionel Street, Birmingham; John Milton Worsell, photographer (a director of Sunbeam Photo Co., Margate), Northdown Park Road, Margate; Richard H. M. Worsell, a son of the preceding defendant (a director of Sussex Commercial Photo Services, Chapel Mews, Hove); Kenneth H. Angus, photographer (manager of Cine Photo, Ltd., Epsom); and Francis Cholerton, photographer, St. Helens. F. J. Pettifer, A. V. Pettifer and the Opaque Roll Film Co. were accused on six counts of selling unexposed sensitised photographic paper above the permitted price and reselling it otherwise than by retail. A. V. Pettifer and Robert Andrew (Oldham), Ltd., were similarly accused on four counts. Cholerton was charged on six of the counts with aiding and abetting. The charges against F. J. Pettifer, A. V. Pettifer and the Opaque Roll Film Co. included the sale and resale of 23,000 postcards on or about February 25, 1943; 5,000 postcards on or about April 1, 1943; and 50,000 postcards on or about March 13, 1945. Cholerton was accused of aiding and abetting in respect to the 50,000 postcards. A. V. Pettifer and Robert Andrew (Oldham), Ltd., were accused in respect of 20,000 and 15,000 cards and Cholerton was charged with aiding and abetting.

### Nature of Charge

The two Worsells were charged on two counts with selling unexposed photographic paper above the permitted price, and reselling the same otherwise than by retail, and on one count of failing to furnish an invoice. Angus was charged with aiding and abetting in two of these offences; and also charged on three counts with selling postcards above the permitted price; three counts of reselling otherwise than by retail, three of offering for sale above the permitted price, and three of failing to furnish invoices. The two Worsells and Angus were charged on two counts also with conspiracy.

The Pettifers, Cholerton, the Opaque Film Co., and Robert Andrew (Oldham) Ltd., all pleaded guilty. The Worsells and Angus pleaded guilty to all counts except those relating to conspiracy. The prosecution accepted their plea and withdrew the conspiracy charge. For the prosecution it was stated that the matters were brought to light during investigations by the police of more serious matters that would come before the court in course of time. All the men were of previous good character. Defence said the accusations were for minor technical infringements. The quantities were spread over a period of years, and would have been sold by retail to the general public at the same or an even lower charge as a mail order transaction without infringement. There was no gain for the Pettifers except that that they saved the trouble of wrapping up the goods for general sale. They had sold at retail prices in the wholesale manner. They conducted a legitimate business perfectly openly and were unaware until this case was begun that they were infringing regulations. Cholerton's part had been merely that of purchaser of some of the postcard. The point was made that the permitted price was not laid down by the Board of Trade but was the subject of agreement between the Department and manufacturers. People in the trade were not informed, and the Worsells did not know they were committing any offence. For Angus was said that he had acted openly throughout. During the relevant period trade journals were advertising photographic material at the highest prices mentioned. He understood tax had been paid by the suppliers.

Fines were imposed as follows: Pettifer, £25 on one count and £1 on each of five other counts—total £30. A. V. Pettifer, £20 on one count and £1 on each of nine others—total £29. Opaque Roll Film Co., £25 on one count and £1 on each of four others—total £29. Robert Andrew (Oldham), Ltd., £25 on one count and £1 on each of three others—total £28. F. Cholerton, £15 on one count and £5 on each of five others—total £40. Worsell, £100 on each of two counts and £50 on each of three others—total £350. R. H. M. Worsell, each of three counts, and £100 on two others—total £350. K. H. Angus, £50 on one count, and £1 on each of nine others—a total of £63.



## TOPICAL REFLECTIONS

### And So To Work

letter of Mr. H. Lattimer (p. 217), pointing out that greater production can only be accomplished by harder work or longer hours or both, is timely. After the collapse of Japan, many people who had undergone the stress of war conditions in the daily occupation realised that they were tired and in need of relaxation. Now, however, at an interval of six months from that event, it is time to cease talking about being tired and to concentrate attention on the tasks that are most urgent. No one, it may safely be said, wishes to return to the long hours of retail business common a generation ago; but leisure, unless rigidly proportioned to work, can be as tedious as the most monotonous job. We have to remember, too, that the movement of the hands of the clock is not the sole criterion of work done. A century ago Carlyle, in his "Past and Present," urged increased production with a force and a relevance which his mannerisms have tended to obscure. "Know thy work and do it. . . . Delay, on the whole, has no other way of cultivating us. . . . One monster there is in the world: the idle man." The circumstances of his day differed from those of ours, and the youngest among us might find a new Carlyle unreadable; a new King might fare better. The proposition that there is no satisfaction equal to that obtained from work well done is, I submit, sound. To the extent to which pharmacy is a profession, the exact length of the working day is of minor importance.

### Research Grants

The question of grants to the Pharmaceutical Society for purposes of research, raised by Mr. Melhuish at the February meeting of the Council (pp. 207, 212), is worth bringing. As those of us who read the *Dr. D.* in the middle 'nineties remember, a complaint was then made that the chemical research carried out on the Society's premises was not always specifically pharmaceutical. Chemical research in Finsbury Square was, in the nature of things, likely to be of service to chemistry in general; and the complaint did not receive much support. The altruism of the Society in this respect during the past twenty years has not obtained excessive recognition. One possible exception comes to mind. Speaking at Bath in 1924 as Chairman of the British Pharmaceutical Conference, the late Mr. Edmund White

advocated the establishment by the Society of a department for testing the substances to be scheduled under the Therapeutic Substances Bill when it became an Act. This department was set up: its work has obtained publicity, and the fees received from commercial testing are not inconsiderable. What can be done to attract patrons for the kinds of research suited to the Society's staff?

### A Triple Obituary

In the month of February died, in different years, three medical men of interest to pharmacists. On February 16, 1754, Richard Mead, M.D., F.R.S., author of "A Mechanical Account of Poisons . . ." (referred to in this section recently), passed away. If Mead was perhaps somewhat too "mechanical" and conventional in discussing poisons, he showed more alertness in his treatise on scurvy (1749), in which he instanced the use of lemons and oranges in the Navy as a prophylactic. John Arbuthnot, M.D., F.R.S., F.R.S.E., the inventor of the name John Bull for the typical Englishman of his day, died on February 27, 1735. Shortly before his death he issued a book on nutrition and dietetics, and another on the physiological effects of air. The latter book was to a great extent a compilation from the work of others; in writing on cinchona he, for once, supplemented this method by his own observations. On the morning of February 27, 1827, the eccentric Dr. William Kitchiner was found dead in his house in London. He is remembered chiefly by "The Cook's Oracle," the contents of which are suggested by its title. In the seventh edition, published in 1823, it was stated that 15,000 copies of the work had been sold during the previous year; and new editions were appearing as late as 1831. Kitchiner's dinner parties were famous among his circle of friends, and his invitations to them were elaborately facetious. His historical survey of cookery in the book mentioned indicates, however, that he took the subject seriously.

### Postscript

By a mishap in printing, the words "with sufficient latitude" were transferred from the last sentence of my second paragraph last week to the previous sentence. They should be read after the words "this requirement is exercised." **Xrayser.**

## THE WEEK IN PARLIAMENT

by a Member of the Press Gallery, House of Commons

ONLY 25 per cent. of mothers with children under five were taking up their cod-liver oil. MR. KEY (Parliamentary Secretary to the Ministry of Health) told the House of Commons on February 11, in the course of an adjournment debate raised by Dr. Stephen Taylor. DR. TAYLOR spoke with particular reference to rickets. In April, 1944, the war-time social survey made an inquiry for the Ministry of Food. About 900 mothers with young children were studied and they were selected at random. It was found that about 70 per cent. of these were collecting their orange juice and only 40 per cent. were collecting their cod-liver oil. Why was it that 30 per cent. were failing altogether to get their vitamin supplements? Dr. Taylor thought there were two main reasons. First there was the failure to appreciate the importance from the health point of view of collecting these vitamin supplements, and secondly, physical difficulties in the collection—for instance, the distances from the distribution centre, awkward times of opening, or difficulties in connexion with minding other children in the family. The answer to the first reason was simple—more health education. The answer to the second was more improvement and imagination in the distributing machine. Even when they had got these right, there remained the relative unpopularity of cod-liver oil, and anyone who had tasted it realised why.

### Alternatives Suggested

Dr. Taylor dealt with alternatives. Cod-liver oil and malt was much more popular among children than was cod-liver oil, but it would not prevent rickets unless it had extra vitamin D added to it. One of the commonest causes of rickets was relying on cod-liver oil and malt to prevent it. There was, however, one real alternative and he wanted to urge the Government to give this a fair trial in one or two of the northern towns. One-tenth of a milligram of calciferol could be dissolved in about 15 milligrams of arachis oil. That mixed perfectly and tastelessly with cocoa butter and could be used for making chocolate. There were two possible objections to that proposal. Such chocolate would not contain the vitamin A which cod-liver oil contained. It might be possible to add carotene to the chocolate. There were many natural sources of vitamin A available,

for example, milk and vegetables, and it was almost certain that children obtained the vitamin A they needed from these natural sources, particularly from the extra supplies of priority milk. The sole objection was that the chocolate might not be used for the proper purpose.

### The Ministry's View

MR. KEY, replying, referred to the inquiry mentioned by Dr. Taylor, and the report of that inquiry was considered by the Medical Subcommittee of the Minister's Advisory Committee on mothers and young children, and various recommendations arising out of the report were made. Those recommendations had been accepted by the Minister and had been acted on. The Committee found that national cod-liver oil, at its present potency of one 700 or 800 international units of vitamin D per teaspoonful, really did contain an adequate concentration of that particular vitamin. They suggested that increased publicity should be given to the necessity for mothers to obtain a supply of the national compound, and that great attention should be given to instructing them of the importance of vitamin D. Through whatever organisations they could use the B.B.C., the maternity and child welfare centres and so on, such advice and publicity had been given. They also made recommendations that vitamin D should be added, as Dr. Taylor had said, to natural dried milk, and that was being done. The uptake of cod-liver oil was a matter of concern to the Ministry. It had been for some time, and it would seem that, in spite of the publicity and attempts which had been made at education, there had not been a substantial improvement in consumption. The actual consumption at present was about 25 per cent. of the potential. Consideration had been given to the possibilities of improving the palatability of the cod-liver oil. There had been some difficulties, because even if they took the process of cold-curing during production it was found that there was an increase of anything between 15 and 20 per cent. in the cost of production and a loss of something like 10 per cent. of the available vitamin. Their investigations had shown that the palatability element was really of little importance, and was largely due to the way in which the cod-liver oil was given to the children.



the nurseries where it was given under proper supervision, palatability or lack of it does not seem to be a factor that interferes with consumption. With regard to unadulterated chocolate, while it was possible under existing conditions, there was a lack of vitamin A concentrate. It would be a result of changing over from the use of cod-liver oil. It was this difficulty of getting the necessary quantities of vitamin A that prevented the use of that method. They were doing everything in the way of investigating and carrying out experiments to find a practical means of solving the problem. Mr. Key emphasised that all their experience had shown that if cod-liver oil was given as a routine matter from the age of one month onwards the lack of palatability did not prevent its consumption.

### Question on Trade Associations

On February 12, MR. IRVING asked the President of the Board of Trade if a small-business owner, having received a permit for foreign trade, was compelled to join the trade group, and what disadvantages he would suffer if he did not join. MR. BELCHER, Parliamentary Secretary to the Board of Trade: I am not aware of any compulsion on exporters, small or large, to join trade associations or export groups. A trader who chooses not to join such an organisation will not, of course, enjoy the services which it provides for its members.

### Returning Used Medicine Bottles

MR. STEPHEN TAYLOR asked the President of the Board of Trade on February 13 if he was aware that the present epidemic of influenza, which has exacerbated the shortage of medicine bottles; if he would draw the attention of the Government to the need for returning used bottles to the chemists. MR. BELCHER: He referred Dr. Taylor to a previous report in which Sir Stafford Cripps had said that bottle manufacturers had been asked to give priority to medicine bottles.

### Report on Hearing Aids

On February 14, MR. SUTCLIFFE asked the President of the Council when the committee set up by the Medical Research Council two years ago to investigate questions relating to the deaf was likely to issue a report. MR. HERBERT MORRISON: The report of the Electro-Acoustics Committee on Hearing Aids is in course of preparation, and it is hoped that publication will take place in the near future.

## COMING EVENTS

### Tuesday, February 26

SOCIETY OF PUBLIC ANALYSTS, Chemical Society's rooms, Burlington House, London, W.1, at 6.30 p.m. Short papers on "Chromatographic Analysis."

AGRICULTURAL GROUP, SOCIETY OF CHEMICAL INDUSTRY, Royal College of Science, Imperial Institute Road, London, S.W.7, at 2.30 p.m. Five papers on "Application of Physico-chemical Methods to Soil and Crop Studies."

BRIGHTON ASSOCIATION OF PHARMACY, the Institute Hall, Union Church, Queen Square, Brighton, at 7.30 p.m. Mr. H. G. Rolfe, B.Sc., Ph.C., on "Some Recent Additions to the British Pharmacopoeia."

### Wednesday, February 27

SHEFFIELD BRANCH, PHARMACEUTICAL SOCIETY, Grand Hotel, Sheffield, at 7.45 p.m. Mr. Granville Shaw, Ph.C., on "The Humours of Commercial Travelling."

MANCHESTER BRANCH, CHEMICAL SOCIETY, Engineers' Club, Albert Square, Manchester, at 7 p.m. Dr. C. J. T. Cronshaw on "What Industry Expects from the Chemist."

ROYAL INSTITUTION, 21 Albemarle Street, London, W.1, at 5.15 p.m. Sir Henry Dale F.R.S., on "Chemical Transmitters of the Effects of Nervous Impulses" (1. Nicotine, curarine, muscarine and atropine). (First of a series of four weekly lectures.)

### Thursday, February 28

LIVERPOOL CHEMISTS' ASSOCIATION and BRANCH, Adelphi Hotel, Liverpool, at 7.30 p.m. Mr. F. W. Adams, Ph.C. (deputy secretary of the Pharmaceutical Society) on "Bretton Woods, the Loan, and Pharmacy."

TORQUAY BRANCH, PHARMACEUTICAL SOCIETY, South Devon Technical College, Teignmouth Road, Torquay, at 7.30 p.m. Mr. D. G. Ardley on "Sulphonamide Therapy."

NATIONAL ASSOCIATION OF WOMEN PHARMACISTS, 17 Bloomsbury Square, London, W.C.1, at 7 p.m. Members' night. Debate, "Hospital Pharmacists have a Superiority Complex." Discussions on "N.O.E.P.—What Is It?" and "To Canvass or not to Canvass?"

### Friday, March 1

NEWCASTLE AND DURHAM BRANCH, CHEMICAL SOCIETY, Chemistry Lecture Theatre, King's College, Newcastle-on-Tyne, at 5.30 p.m. Original papers.

### Sunday, March 3

MANCHESTER PHARMACEUTICAL ASSOCIATION. Ramble, Grindleford to Millers Dale. Meet Central station, 8.45 a.m. Book Grindleford return.

## BIRTH

**GAMBLE.**—February 17, 1946, at Mrs. Harper's nursing home, Lisburn, Northern Ireland, Eva, the wife of Alexander Wesley Gamble, M.P.S.N.I., 52 Bow Street, Lisburn, of a daughter.

## DEATHS

**CARR.**—At the funeral of Mr. E. C. Carr, M.P.S. (see *C. & D.*, February 16, p. 203) pharmacy was represented by Mr. F. W. Shepherd (chairman, Pharmaceutical Committee), Mr. E. Newbold (secretary, Nottingham Branch, Pharmaceutical Society), Mr. W. J. Clay (representing the National Pharmaceutical Union), and the following members of the staff of Fitzhugh & Carr: Messrs. W. C. Wicks, Percy Burr and George Burr.

**DEALVE.**—On February 1, Mr. Louis Norman Dealve, M.P.S., 154A Station Road, Harrow, Middlesex. He qualified in 1906.

**FORD.**—At Croydon, on February 17, after a long and painful illness contracted whilst on military service, Mr. William Edgar Ford, elder son of Mr. W. E. Ford (Sangers, Ltd., London, N.W.1), aged thirty-one. He is survived by a widow and one young son.

**GRIFFITH.**—At the War Memorial Hospital, Rhyl, on February 15, Mr. Iestyn Jones Griffith, M.P.S., manager of the High Street, Prestatyn, branch of Boots, Ltd., aged forty-one.

**HARRIS.**—Recently, Mr. Thomas Harris, M.P.S., The Pharmacy, Seven Sisters, Glamorganshire. Mr. Harris qualified in 1907.

**ISAAC.**—On January 30, Mr. Henry Oswald Isaac, 32 Hurler Crescent, Clifton, Bristol, aged eighty-three. Mr. Isaac qualified as a chemist and druggist in 1886.

**JONES.**—At his home, 72 East Road, Tylorstown, on January 19, Mr. John Rees Jones, M.P.S., aged fifty-four. Mr. Jones had been in business at Tylorstown for twenty-six years, and is survived by his wife and two daughters, one of whom is Miss V. M. Jones, B.Pharm., Ph.C.

**MAIR.**—On January 28, Mr. William John Mair, M.P.S., 91 Blenheim Crescent, Notting Hill, London, W.1, aged fifty-two.

**MORTIMER.**—On February 4, Mr. James Forbes Mortimer, M.P.S., Church Street, Sheringham, Norfolk, formerly of Shanghai, aged fifty-one.

**SMART.**—In September 1945, Mr. Harry Smart, M.P.S., 69 High Street, Littlehampton. Mr. Smart qualified in 1900.

**SPILMAN.**—On January 28, Mr. James Spilman, M.P.S., 179 Holde Road, Hull. Mr. Spilman qualified in 1890. He was a former president of the Chemists' Association and chairman of local Pharmaceutical Committee. He was also a member for thirteen years of the city council.

**SWAN.**—On January 13, Mr. Michael Edward Swan, Dunelm, Peerley Road, Bracklesham, Chichester, aged eighty-two.

**SWINBURN.**—On February 14, Mr. Frank Swinburn, M.P.S., 1 Inglewood Terrace, Penryth, Cumberland, aged eighty-two. Swinburn was for many years a member and for a time the chairman, of the urban district council.

**WALKER.**—On January 2, Mr. James Walker, M.P.S., Bydand, Station Road, Ellon, Aberdeenshire, aged seventy-seven. Mr. Walker qualified in 1890 and prior to his retirement four years ago had been in business in Ellon for fifty-two years.

**WINEROOPE.**—On February 6, Mr. Samuel Wineroope, M.P.S., 23 Market Place, Bridge, Staffs, aged forty-eight.

## WILLS

**MR. JOHN WILLIAM MAINPRIZE,** M.P.S., 5 Fern Bank, Otley, Yorks, left £10,549, with net personality £15,549.

**MR. JAMES FRANCIS BUCKLEY,** 166 Queen's Road, Buckhurst Hill, Essex, a director of Buckley-Bowker Tablet Co., Ltd., 29 field Street, London, N.1, left £9,137, with net personality £8,997.

**DR. JAMES CECIL MOTTRAM,** M.B., Green Lane, Northwood, Middlesex, search laboratory, Mount Vernon Hospital, Northwood, left £11,478, with net personality £11,385.

**MR. FRANK NORTON,** Ph.C., 32 Dorset Road, Parkstone, Dorset, formerly for thirty years branch manager for Savoy Moore, Ltd., left £2,833, with net personality £2,397.

**MR. HAROLD EDWIN MUSPRATT,** 100 Purley Way, Purley, Surrey, managing director of Shawinigan, Ltd., chemical manufacturers, Lloyds Avenue, London, E.C., left £11,511, with net personality £2,346.

**MR. CHARLES TARBOTSON HARDY,** 100 Barton Hill Road, Barton, Tyneside, formerly a director of Arthur Berton surgical dressings manufacturers, 25 Old Street, E.C.1, left £11,230, with net personality £7,552.



## COMPANY NEWS

**NORTHERN PHARMACEUTICALS, LTD.**  
(P.C.).—Capital £100. Chemists, druggists, etc. Directors to be appointed. R.O.: 11 Leaside, Bradford.

**AMOR GLASS CO., LTD. (P.C.).**—Capital £50. Manufacturers of and dealers in glassware, toilet requisites, etc. Directors to be appointed. R.O.: 36 Southampton Street, London, W.C.2.

**MODERN NATURAL WAVES, LTD. (P.C.).**—Capital £1,000. Permanent hair waving specialists. Directors to be appointed. Sponsors: W. E. Wise, 20-23 Holborn, London, E.C.1.

**ORTHOID, LTD. (P.C.).**—Capital £100. Manufacturing, wholesale and retail chemists, etc. George E. Hollington, director. R.O.: Devonshire Chambers, 146 Bishopsgate, London, E.C.2.

**PERFUMES, LTD. (P.C.).**—Capital £100. Manufacturers of toilet requisites, chemists and druggists, soap manufacturers, drug grinders, etc. Richard G. Meredith and Henry Pease, directors.

**PORTER & CO., LTD. (P.C.).**—Capital £50. To acquire the business of chemical planters and manufacturers of lead and leaded plant carried on by Nordac, Ltd., at Scrutton Street, London, E.C.2, as "S. Porter & Co." Norman Swindin, Herbert L. Malan, Albert E. Norman and Herbert Evans, directors. R.O.: Duke's Road, Western Avenue, London, W.3.

**COLTON PHARMACEUTICAL INDUSTRIES, LTD. (P.C.).**—Capital £100. Dealers in pharmaceutical and industrial preparations, soaps and cosmetics, proprietary articles, etc. James H. Miners, M.P.S., Robert L. Loviborough, M.P.S., William R. Jones, M.P.S., and Joseph Jenkins, directors. R.O.: Carlton House, 78 Bollo Bridge Road, London, W.3.

**IRISH GEON, LTD. (P.C.).**—Capital £50. To adopt an agreement between the Distillers Co., Ltd., B. F. Goodrich Chemical Co. of Cleveland, Ohio, a division of B. F. Goodrich Co., of New York and this company, and to carry on the business of manufacturers of and dealers in resins, varnishes, moulding powders, plastic materials, drugs, and other preparations. The first directors are Cecil G. G. Han, Leonard A. Elgood, Hector Herdridge and Charles J. P. Ball (nominated by Distillers Co., Ltd.) and Sir John A. F. Sinclair, John L. Collyer and W. S. Richardson (nominated by B. F. Goodrich Chemical Co.).

**HORLICKS, LTD.**—The Right Honourable Richard Law, P.C., M.P., has been appointed a director.

**PROTECTION ORDER.**—Arthur Harry Hatton, M.P.S., 81 Mill Lane, West Hampstead, Middlesex. Order issued on January 21 under the Liabilities (War-time Adjustment) Acts.

**APPOINTMENT OF TRUSTEE.**—Hyman Arbeid, 63-65 Piccadilly, London, W.1, has been appointed trustee for Leon Simon Soloveitsik, commission agent, 2 Oakley Street, Chelsea, London, S.W.3, described in the receiving order as Laurence Randall, wholesale chemist.

## PERSONALITIES

**MR. G. WOODFINE, M.P.S.**, gave an address on "Modern Pharmacy" to members of the Bexhill Rotary Club, recently.

**DR. ERIC HUTCHINSON**, Bingley, has been appointed assistant lecturer in chemistry at Sheffield University.

**MR. A. D. POWELL** (chief analytical chemist, Boots, Ltd.), addressed Beeston Rotarians on February 4 on the production, progress and uses of penicillin.

**MR. JOSEPH RITCHIE, Ph.C.**, Crumlin Road, Belfast, has been nominated as a life governor of the Royal Victoria and Ophthalmic Hospitals, Belfast.

**SIR STAFFORD CRIPPS** (president of the Board of Trade) visited the penicillin factory of Boots Pure Drug Co., Ltd., at Daleside, Nottingham, on February 9.

**MR. FRANK G. MURRAY**, export director of Johnson & Sons, Manufacturing Chemists, Ltd., Hendon Way, Hendon, London, W.4, left this country by air on February 17 on a business trip to India. He expects to be away for about two months.

**MAJOR K. HESLOP, M.P.S., R.A.M.C.**, formerly representative in the Nottingham area for Eli Lilly & Co., Ltd., has been appointed Deputy Assistant Director of Medical Services, Singapore. He is believed to be the first non-medical officer to hold the appointment.

**SIR FREDERICK BAIN**, deputy chairman of Imperial Chemical Industries, Ltd., has been appointed deputy president of the Federation of British Industries. From 1941-44 Sir Frederick was chairman of the Chemical Control Board, Ministry of Supply, and of the Chemical Planning Committee, Ministry of Production.

## TRADE NOTES

**Perfumery for Export.**—Inquiries for Revue perfumery items are invited by the makers, Patrick, James & Co., Creek House, High Street, Kingston-on-Thames. The products are at present available only for export.

**Tight-grip Teats.**—J. G. Ingram & Son, Ltd., Hackney Wick, London, E.9, draw the attention of chemists to the Omega teat and valve, which, made by a special process, are claimed to ensure a tight grip of the feeding-bottle.

**Food Tonic.**—The makers of Leciferrin (Leciferrin, Ltd., 4 John Adam Street, London, W.C.2) food tonic, containing saccharated oxide of iron and ovo-lecithin, point out that the product is available through wholesalers.

**Hot Water Bottle Prospects.**—Reliance Rubber Co., Ltd., Cremorne Works, Lots Road, London, S.W.10, state that although their Reliance hot water bottles are still in restricted production, they hope to be able to supply all customers next season.

**1946 Price List.**—The 1946 price list of pharmaceutical specialities issued by Roche Products, Ltd., Broadwater Road, Welwyn Garden City, Herts, is now available. Copies can be had on application to the manufacturers.

**Cycle and Pump Lock.**—Users of trade bicycles are informed of a new lock introduced by Howard Clayton-Wright, Ltd., Tiddington Road, Stratford-on-Avon, that secures both cycle and pump. Further details may be obtained from the makers.

**Price Reduction.**—Reductions in the prices of their menthol cones are announced by M. J. Fecher, Ltd., 121 High Street, Slough, Bucks. The reductions affect the company's Victory, Kristal, Fingertip and 45 Dome series.

**Organic Calcium Solution.**—Evans Medical Supplies, Ltd., have published a four-page leaflet describing the nature and use of Percalcin, a concentrated solution of calcium in organic combination for intravenous or intramuscular use.

**Five-day Week.**—Paines & Byrne, Ltd., Pabryn Laboratories, Bilton Road, Greenford, Middlesex, have instituted a five-day week with the object of saving fuel. Arrangements have been made with John Bell & Croyden, 50 Wigmore Street, London, W.1, to meet urgent prescriptions for Pabryn specialities.

**Self-adhesive Tape.**—Sellotape self-adhesive cellulose tape is stated to be clear to handle than most similar products. The material is available in many widths in 72-yard rolls, transparent or colored, from the official distributors, Gordon & Gotch, Ltd., 75 Farringdon Street, London, E.C.4.

**"Rush" Season for Colds.**—Influcol, Chapel Street, Bradford, point out that prominence given at present to Influcol compound oral vaccine is especially timely. The manufacturers state that there may be a delay in supplying from stock owing to seasonal pressure of business.

**Fruit Preserving.**—The sole distributors to the trade of Porosan fruit-preserving caps and skin rings, marketed by Porosan, Ltd., 65 Chancery Lane, London, W.C.2, are S. Maw, Son & Sons, Ltd., Aldgate House, New Barnet, Herts. The caps and rings are claimed to preserve fruit perfectly without the aid of clips.

**Supplies Restricted.**—Pharmax, Ibex House, Minorities, London, state that, owing to increased demand and shortage of raw materials, supplies of Diuromil brand uric-acid eliminator are at present limited. Every effort is being made to clear outstanding orders, which are dealt with in rotation.

**Containers Still Difficult.**—Containex Recovery Service (S.P.D., Ltd.), Union House, Blackfriars, London, E.C.4, point out that the packing material situation, despite co-operation from the trade, is still serious. The promoters of the service ask chemists to take care of every container and return it to the authorised collector as speedily as possible.

**Treatment of Foot Infections.**—Aerobac, which is described as a new and effective treatment for mycotic affections of the foot (it contains phenylmercuric nitrate in oil-in-water emulsion) is now being supplied through S. Maw, Son & Sons, Ltd., Aldgate House, New Barnet, Herts, who have been appointed the sole selling agents in the United Kingdom for the manufacturers, Aero-ped, Ltd., 35 Bessborough Place, London, S.W.1.

**Index of Modern Remedies.**—A new edition of the recently published series of "An Index of Modern Remedies" has been issued. The opportunity has been taken by the publishers for further revision.



and a 68-page booklet presents, at a glance their official and proprietary recent advances that are likely to be included in the forthcoming B.P. The is obtainable at 2s., post free, from "The Scottish Chemist," 240 Albert Drive, Glasgow, S.1, or from H. K. Lewis & Co., Ltd., 36 Gower Street, London, W.C.1.

**War Effort.**—Under the title "Coty Carried On" an interesting illustrated leaflet has been published by Coty (England) Ltd., showing the war-time activities of the company. In factories opened in Scotland and Bedfordshire war-time productions included pyrotechnics and the grinding of explosives materials, camouflage creams, antiseptic ointment, solid fuel, etc. The administration and sales offices have returned to London; the Brentford factory has moved back to cosmetics production and the headquarters of the company is once again at 15 Gower House, Stratford Place, London, W.1.

**World Tour.**—Mr. Ernest Brier, a vice-president of Parke Davis & Co., has recently completed what is thought by the company to be the first round-the-world business flight and certainly the first post-war tour of this kind. Leaving Detroit, United States, on October 11, 1945, Mr. Brier arrived back there on January 9, 1946, having visited the firm's branches in London, Bombay and Sydney, with stops at Colombo, Karachi, Colombo, Perth, Brisbane and Honolulu. His actual flying time was about 170 hours. Mr. Brier, who served his apprenticeship and qualified as a pharmacist in this country, was formerly a member of the representative staff of the London branch, 50 Beak Street, London, W.1.

**Photographic Products.**—Tabloid photographic wetting-agent and Wellcome photographic wetting-solution have been introduced by Burroughs Wellcome Co. (The Wellcome Foundation, Ltd.), 183 Euston Road, London, N.W.1. The use of these products in developers and other processing baths minimises the risk of defects associated with uneven development and in the final rinse water they ensure uniform draining of the processed material. The solutions produced are neutral and do not interfere in any way with the low-energy fine-grain developers. The former is available in bottles of twenty products, the wetting solution in 4-oz. bottles. Each speciality is to be the subject of a Press advertising campaign during the coming months.

## Proprietary Articles Trade Association

**Addition to Protected List.**—*British Schering, Ltd.*, Vasan tablets, tubes of ten, 31s. 6d. doz., tax 5s. 3d. doz., inclusive retail price 3s. 11½d.

**Alteration.**—*Moore Medicinal Products, Ltd.* Reduced prices, March 1: M.M.P. pocket inhaler, clear glass, 10s. 6d., 84s. doz. (exempt from tax); amber glass 12s., 96s. doz. (exempt); Bon Accord inhaler, amber glass, 10s. 6d., 84s. doz. (exempt).

**Admission to Membership.**—John Knox (Stoke-on-Trent), Ltd., Cannon Street, Hanley, Stoke-on-Trent, have been admitted to membership of the wholesale section of the P.A.T.A.

## BUSINESS CHANGES

**STANNING PROPRIETARIES, LTD.**, have removed from Harrogate to 32 St. James's Street, London, S.W.1.

**MR. F. O. ROBINSON, M.P.S.**, has acquired the business of the late Mr. A. E. Davidson, M.P.S., 2 Uppingham Road, Leicester.

**MR. R. W. MAXFIELD, M.P.S.**, 197 Bridgeman Street, Bolton, Lancs, has now returned from H.M. Forces, and is again in business at that address.

**D. MAWDSLEY & Co.**, wholesale and manufacturing chemists, have removed to permanent premises at 64 Faulkner Street, Manchester, 1.

**MR. W. H. FOWLER, M.P.S.**, until recently secretary of the County of Surrey Pharmaceutical Committee, has removed to The Pullings, London Road, Knebworth, Herts.

**MR. J. C. DURNAN, M.P.S.; M.S.R.**, has been appointed pharmacist to Queen Mary's Hospital for the East End, Stratford, London, E.15; the present holder of the position (Mr. D. L. Llewellyn, M.P.S.) is shortly retiring.

**MR. FRANK C. WILSON, M.P.S.** (a member of the Council of the Pharmaceutical Society), has taken over the secretaryship of the County of Surrey Pharmaceutical Committee. The Committee is now housed at 23 Worple Road, Wimbledon, London, S.W.19. Telephone: Wimbledon 0555.

**MR. A. A. KENNINGHAM, B.Sc.**, who, at the time of his release from the Forces in the autumn of 1945 held the rank of Major (temporary Lieutenant-Colonel), has been taken on to the staff of Sangars, Ltd., with a view to expanding the company's export business, particularly in Fennings' preparations.

## CHEMISTS' FRIENDS ASSOCIATION

A MEETING of the council of the C.F. Association was held on February 7, the newly-elected president (Mr. E. W. Godding) in the chair. The meeting had been preceded by a meeting of the C.F. Standards Committee on February 6.

### Council Elections

THE SECRETARY, reporting on the C.F. council elections, said that the only nominations received for four vacancies in the manufacturers' section had been for the four retiring members, who were therefore re-elected to serve for a further period of two years. They were The British Drug Houses, Ltd., British Colloids, Ltd., Genatosan, Ltd., and the Westminster Laboratories. In the wholesale section three nominations had been received to fill one vacancy, and the ensuing ballot had resulted in Gale, Baiss & Co., Ltd., being re-elected for a further period of two years. Messrs. E. A. Brocklehurst, J. Hearle, and T. Heseltine had been appointed by the National Pharmaceutical Union and Mr. W. T. Elder by the Scottish Pharmaceutical Federation to serve for a further period of two years.

### Officers and Committees

The following officers were elected for the ensuing year:—*President*, Mr. E. W. Godding; *Vice-president*, Mr. W. J. Tristram; *Treasurer*, Mr. J. D. Bohn. The following *Committees* were elected:—*C.F. Propaganda*, Messrs. J. D. Bohn, L. Boon, E. A. Brocklehurst, S. Brook, O. N. T. Davenport,

N. Dewey, G. A. Mallinson, R. L. C. May, F. J. Smith, W. J. Tristram, together with the president and the retailers' representatives for Northern Ireland (Mr. A. T. Gibson), and Scotland (Mr. W. T. Elder), *ex-officio*. *C.F. Standards*, Messrs. J. D. Bohn, T. Feather, E. W. Godding, J. Hearle, Heseltine, W. W. Knott, G. A. Mallinson, P. H. Smith, S. J. Stearn, the representatives of May, Roberts & Co., Ltd., together with the vice-president and the retailers' representatives for Northern Ireland (Mr. T. Gibson), and Scotland (Mr. W. T. Elder), *ex-officio*.

### Applications for Membership

An application for manufacturer membership received from Jeyes Laboratories, Richmond Street, London, E.13, was accepted. The schedule to the company's agreement includes the following products: Cyllin-M and Suleo (DDT). Five applications for wholesaler membership were considered. Two were refused, two deferred for further consideration by the council, and the following accepted: N. M. Gould, Ltd., 62 Stoney Lane, London, E.C.1.

### Applications for Supplies

Nine applications for maintenance of supplies of C.F. products to business enterprises which have been temporarily converted into drug-stores owing to war-time conditions were considered. Six were granted and three refused.

## ANTIBIOTICS TABULATED

SINCE the discovery of penicillin numerous antibiotic compounds of greater or less kinship to it have been introduced. Sir Alexander Fleming himself pointed out that it would be remarkable if the first useful antibiotic to be discovered should be the last or even the best. So far, however, it appears that the supremacy of penicillin against Gram-positive organisms is not

threatened, though it may be that streptomycin, a product of American research, offers greater promise against the more negative organisms. At least fifty compounds have been isolated, but the toxicity of many of them renders them too dangerous to be considered. A caution of the usefulness of the compounds is given.

Substance	Discovery credited to	Botanical source	Active against	Remarks
Penicillin	Fleming, London, 1929	<i>Penicillium notatum</i>	<i>Staphylococcus aureus</i> , <i>Diplococcus pneumoniae</i> , <i>Streptococcus pyogenes</i> ,	Hæmolytic streptococcus inhibited by 800,000 of penicillin against 1 in 100 of sulphathiazol



Substance	Discovery credited to	Botanical source	Active against	Remarks
Penicillin (c.d.)			<i>Streptococcus viridans</i> (some strains), <i>Clostridium Welchii</i> , <i>Cl. Septicum</i> , <i>Cl. oedematiens</i> , <i>Cl. tetani</i> , <i>Neisserium gonorrhoeae</i> , <i>N. meningitidis</i> , <i>Bacillus anthracis</i> <i>Actinomyces bovis</i> (variable), <i>C. diphtheriae</i> , <i>Treponema pallidum</i> .	Non-toxic and non-pyrogenic. Benzyl penicillin is being investigated.
Streptomycin	Waksman and his students, Rutgers University, U.S.A., 1944.	<i>Streptomyces griseus</i>	Active against gram-negative and gram-positive bacteria, including <i>Pseudomonas aeruginosa</i> . Combined with prominis stated to have given good results in experimental tuberculosis infections.	Excreted in high concentration in urine; of low toxicity. No untoward effects by oral or subcutaneous injections in moderate dosage.
Gramicidin S.	Russian workers, Gause and Brazhnikova, 1944.	<i>Bacillus brevis</i> type	Some Gram-positive and some Gram-negative bacteria.	Stable to heat. Stated to protect guinea pigs against gas bacillus.
Clavacin	Waksman, Horm and Spencer, Rutgers University, U.S.A., 1944.	<i>Aspergillus clavatus</i>	Gram-negative bacteria. Described as both bacteriostatic and bactericidal.	Highly toxic on injection (intravenous or intramuscular).
Streptothricin	Waksman and Woodruff, Rutgers University, U.S.A., 1944.	<i>Streptomyces lavendulae</i>		Toxic
<i>Aspergillus</i> antibiotics (tercyclo- cic acid)	Dunn School of Pathology, Oxford, 1942.	<i>Aspergillus fumigatus</i> var. <i>Helvol</i>	Gram-positive organisms including gas-gangrene. Claimed of definite therapeutic value in treatment of experimental staphylococcal and streptococcal infections.	Resists boiling for 15 mins.; power not reduced by pus or serum. Has much longer-lasting action than penicillin.
Amigacin	Waksman, New Jersey Experimental Station, 1943.		Bacteriostatic and bactericidal against routine test organisms.	Crystalline. Highly toxic and unsuitable for clinical use.
Ampergillin	Soltys, Institute of Animal Pathology, Oxford, 1944.		Said to be active against <i>Mycobacterium tuberculosis</i> but not against staphylococci.	Withstands boiling for one hour; non-toxic against experimental animals.
	Asheshov and Strelitz, Canada.	<i>Aspergillus fumigatus</i> , another variety.	Strain stated to be active against Gram-positive, Gram-negative and acid-fast bacteria.	Dilutions up to 1 in 500,000. Kills human type of tubercle bacilli.

## THERAPEUTIC PROGRESS DURING THE WAR

Abstract of an Address given at an Evening Meeting of the Pharmaceutical Society of Great Britain on February 14 by Dr. G. A. H. Buttle, F.R.S. (Professor of Pharmacology, College of the Pharmaceutical Society).

THERE have been advances in several fields of therapeutics during the war. Most of the developments have been directly stimulated by war conditions, but all will be of great value in time of peace. Penicillin is likely to have a more widespread influence on the health of the civilian population than any other development made during the war. Already material advances have been made in treatment. The discovery of penicillin came at a most opportune time, for infection of wounds has always been responsible for the great majority of deaths of wounded men once they can be got off the battlefield. Attempts were made during the 1914-18 war to deal with the problem, a tube of iodine being given out with each first-aid dressing; the wounded man was to anoint the wound with this as soon as he could. It was soon found that the iodine did more harm to the tissues than to the bacteria, and that the wounds so treated were even worse than untreated ones.

### Three Phases in Prophylaxis

Three phases in the development of wound prophylaxis can be distinguished in the recently ended war: First, the days of Dunkirk, before the routine institution of sulphanilamide prophylaxis, when wounds were very septic and inflammation not uncommonly spread to neighbouring tissues, producing extensive cellulitis; secondly, the period of fighting in the Western Desert, when routine sulphanilamide prophylaxis was applied, the wounds showed no spreading cellulitis, though local infection was common even after surgical toilet and though with large wounds it was hardly ever possible to attempt a closure; thirdly, the final phase of the war in Europe, when the use of penicillin had practically abolished all but the most transient infections even in large and grossly contaminated wounds. This enabled hospitals to sew up all wounds three or four days after casualties had occurred, nearly all having healed without suppuration. Compound fractures could thus be converted into simple ones, and the saving of time in hospitals and the saving of pain to the patient in a condition such as compound fracture of the femur was enormous. 100,000 units of penicillin was given as soon

as possible after wounding, and doses of 50,000 units were continued at three or four-hourly intervals until the wounded man was admitted to a hospital, where a continuous drip administration of 100,000 units a day was continued for periods of up to five days. The results of this prophylaxis were striking; the cases were evacuated early to England and the death rate after evacuation was only a small fraction of 1 per cent.

### Comparison with Sulphonamides

A small number of British Liberation Army cases have been treated with different agents: First, penicillin only; secondly, penicillin and sulphonamides; thirdly, sulphonamides only. The results showed that giving sulphanilamide with penicillin made no difference to the percentage of uninfected wounds, while sulphanilamide alone gave only 73 per cent. of wounds free from infection, against 93 per cent. with penicillin. A surprising result of the use of penicillin was a reduction in the mortality of abdominal wounds. It had been thought that here the beneficial effect would not be considerable owing to the insensitivity of *Bacillus coli* to penicillin. Yet in a large number of cases recorded by different observers in the Middle East and Italy, mostly treated with sulphanilamide, the recovery rate was 57.7 per cent., against 71.27 per cent. with penicillin.

Penicillin cannot yet be given by mouth with success equal to that of injection, and more work is wanted on the reasons for its failure to appear in the blood in adequate quantities when given by this means. A slow-release vehicle for penicillin, consisting of beeswax and arachis oil, has frequently been employed so as to obviate the necessity of frequent injections at two- or three-hourly intervals. The method seems satisfactory, but may be inconvenient for long periods of treatment, owing to the residues that might be left in the tissues. In military work it was customary to inject 100,000 units so soon as possible after wounding and thereafter while the patient remained in a forward medical unit to give 50,000 units three-hourly; so soon as a casualty was evacuated to a general hospital he was put on a slow intramuscular drip giving 100,000 units in twenty



for five days and in some cases even longer. Although some patients complained of the inconvenience of a needle inserted into the medial muscles of the thigh, the average patient preferred it to hourly injections, and the continuous method is certainly more economical in maintaining a constant level.

Penicillin is active only on Gram-positive organisms, notably streptococcus, staphylococcus, gonococcus, meningococcus and pneumococcus. Against these its action is extremely rapid. In gonococcal urethritis it is possible to demonstrate a considerable swing-up of the organisms in a matter of minutes after the penicillin has been given to a patient; in the course of two or three hours exudates no longer contain live organisms. The mode of action of penicillin on the organisms has not yet been demonstrated.

### Streptomycin

Penicillin is inactive in infections with Gram-negative organisms, extensive research has been made for a material that might have action on this group. In America a substance streptomycin has been isolated from *Actinomyces griseus*. The material is not yet available in quantity, but appears to be active against a large number of organisms of the Gram-negative group, and some infections which are resistant to penicillin may be treatable by this means. It cannot be given orally, although it is not destroyed in the intestinal tract because it is not absorbed, and so does not reach the blood stream. *Bacillus tuberculosis* is unfortunately resistant to both streptomycin and penicillin, and research for a suitable chemotherapeutic agent for the infection is still in progress.

### Blood Transfusions

In the treatment of wounded men, blood transfusion has played a great part. 12 per cent of wounded in the B.L.A. received transfusions, and of these 75 per cent recovered. Here was no epoch-making discovery like that of penicillin, but an organisation was developed which ensured that plasma was available at forward resuscitation points to give to those who could not travel without it, and blood, carefully preserved in mobile refrigerators, was available in quantity at points when definitive surgery was attempted.

Loss of man-power due to sickness, even in little periods, is greater than loss due to wounds; in the Eastern theatre the loss to sickness was exceptionally heavy, and the most common disease was malaria.

### Prophylaxis Against Malaria

Systematic prophylaxis of all troops in a malarious area with mepacrine reduced the incidence of malaria out of all proportion to its original figure. Mepacrine prophylaxis was started of necessity, owing to the lack of quinine, but it was not carried out with strictness and regularity until Hamilton Fairly showed that one tablet of 0.1-gm. taken daily was a certain suppressive dose. Fairly used human volunteers, and in fact this type of experiment could never be carried out on animals, owing to the differences in the malarial strains that infect animals and man. The public spirit shown by a few hundred Australians in allowing themselves to be infected with malaria made the work possible. Twenty-four volunteers were used in each group. Some took mepacrine, 0.1 gm. daily, and others quinine. The drugs were taken both before infection and up to twenty-six days after. The infection was by the bite of specially infected mosquitoes. The carefully planned experiment showed conclusively that mepacrine in those doses acted as a suppressive against large infective doses of both benign tertiary and malign tertiary forms, and that, whereas the M.T. does not appear at all after the treatment, the B.T. infection appears in every treated man twenty-five days after he has stopped taking the drug. Quinine, on the other hand, even in a dose of 10 gm. daily, does not prevent overt attacks of M.T. and only suppresses B.T. in some instances. 1 gm. daily of sulphamezathine or diazine suppresses M.T. but does not suppress B.T. With mepacrine the suppression of a mixed infection was unaffected by extremes of exercise and climatic conditions. When these results were applied to field conditions and strict mepacrine discipline was developed, so that each man took one tablet daily, the malaria rate in New Guinea fell from 740 per 1,000 per annum in December 1943 to twenty-six per 1,000 per annum in November 1944. Blackwater fever disappeared, and the only problem which remained was the relapses of B.T. after a man had ceased to take mepacrine.

### Sulphaguanidine in Dysentery

Dysentery has been responsible for a large amount of sickness. That was the case in the 1914-18 war, and large hospitals with thousands of patients had to be maintained in the Middle East. In 1940 a number of cases occurred in Egypt, with not a few deaths. The work of E. K.

Marshall in Baltimore suggested that sulphaguanidine would be excellent in dysentery; it was not readily absorbed, and yet a large concentration could be early maintained within the intestine. The compound was given in large doses, and resulted in a rapid improvement of the cases, with speedy return to normal in the condition of the stools. So soon as sulphaguanidine was available in quantity, it was administered in all cases of diarrhoea among forward troops, and the problem of bacterial dysentery was completely eliminated.

### Typhus Control

The last subject I wish to speak about is DDT. Early in 1944 a typhus epidemic was rapidly increasing in Naples among an underfed and overcrowded population. An American team treated all contacts with DDT by blowing the powder up the sleeves and trousers of all the people concerned; there was a sudden drop in the number of cases, and the epidemic came to an abrupt

end. Typhus is a disease that has had a more devastating effect on underfed populations than any other, and freedom from it in Europe can fairly be attributed to this agent. It has been shown that the substance persists in clothing for two to three weeks after application, in sufficient quantity to kill lice. The spraying of wall-hutments with a 5 per cent. paraffin solution has done much to lessen the infection by mosquitoes in endemic malarial areas, a film of 200 gm. per sq. metre is effective in killing anopheles; it persists ten weeks.

### Future Research

Research in all these things is going on; the process is arduous but well worth while. It is hoped that in the future the Pharmaceutical Society will take its place in the production of remedies for medical ills. Therapeutics is becoming more important as diagnosis becomes the province of the radiologist, and it means that the doctor has more time to devote to curing his patients.

## BANKING EXPLAINED TO CHEMISTS

MEMBERS of the London Section of the British Association of Chemists met recently to hear an address by Mr. S. B. Heys, LL.B., on "English Banks at Your Service." Mr. E. Leighton Holmes presided. The modern banker in England, said Mr. Heys, had retained some characteristics of three "ancestors": the merchant, money-lender and goldsmith. Banking was one of very few services which cost the depositor no more to-day than in 1939. English banking had been built up slowly, and sometimes painfully, until this country had the best banking system in the world.

### Financing of Inventions

In discussion, Mr. E. R. Palmer asked about one aspect of a bank's appointment as executor of a will. Mr. J. Hackford pointed out that in Germany in pre-war days private inventors were able to obtain finance in order to pursue the results of their experiments, a facility which was not granted in England. He asked how chemists and physicists could finance their inventions; how they could be protected from their employers; and whether the English banks would assume financial responsibility, and afford help such as had been afforded in Germany. Mr. Heys said he believed the backing provided for private invention and research in Germany was Government backing. A bank manager must look at each proposition as a business matter. He

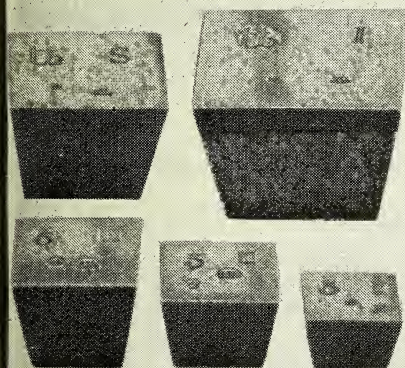
knew of cases where inventors who had no money had been assisted, but a bank manager would normally wish to be assured not only that an invention was a good one, but that it would be put into the hands of men who knew the production and marketing sides, and so on. Protection against an employer was a legal question, and the answer to the question was to be found in the agreement between the man and his employer. The chairman commented that the B.A.C. was able to advise in such a connexion. He went on that one could not blame the English banks for the fact that the development of penicillin was dependent on money from America. But it would "strike a warm chord in one's heart" if they would say they were willing to finance private research and invention; they would probably lose on 25 per cent., but they would probably make a great deal more on the remaining 75 per cent. in instances of assistance.

**Training of Nurses for the Colonies.**—The Secretary of State for the Colonies presented to Parliament a report of the Committee on the Training of Nurses for the Colonies. The sixty-five page report reviews nursing conditions and requirements for the Colonies, and gives a summary of the Committee's recommendations. Coloured paper one shilling, may be obtained from H.M. Stationery Office.

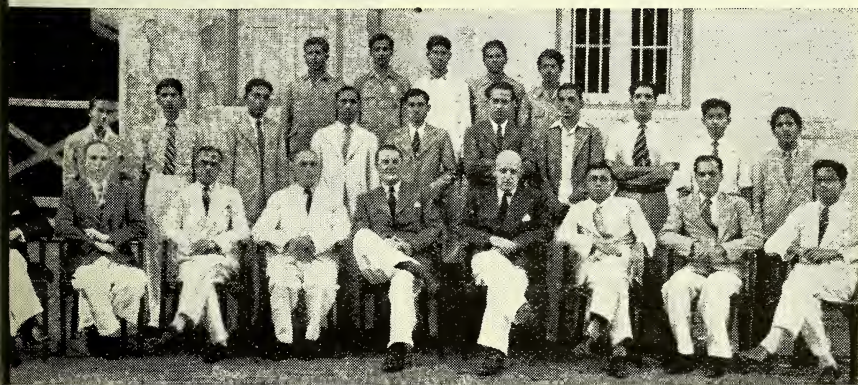


# NEWS IN PICTURES

**VICTORY DINNER (right).**—Head table at Hull Chemists' Association's Victory dinner recently. Cup includes president (J. E. A. Brocklehurst) and Mr. W. J. Tristram (a member of the Pharmaceutical Society's Council). Boys and a pestle and mortar were among the decorations.



**WEIGHTS "FIND" IN SUFFOLK (left).**—In the course of his duties, Mr. Leonard Hobson (Chief Inspector of Weights and Measures, West Suffolk), had submitted to him at Wickhambrook the set of weights illustrated. They are denominated 1 lb.,  $\frac{1}{2}$  lb., 3 oz., 2 oz. and 1 oz., in the apothecaries' system, and are closely similar to a set dated 1760 in the collection of Dr. Orient, Kausenburg, Austria. Dr. Orient's set had been stamped in Vienna.



of Biddle Sawyer & Co. (India), Ltd., Poshijajee Buildings, Princess Dock, Frere Road, Bombay. Photograph by Mr. Leslie Dodds, who has been in India for four months organising the Indian company of Messrs. Biddle, Sawyer, and recently returned to this country.



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V. CXLV FEBRUARY 23, 1946 NO. 3446

## An Unfortunate Precedent

WHOLESALE traders all over the country are alarmed at the possibility of being "caught out" in connexion with purchase tax, if and when this tax on the various classes of taxable goods they stock is lowered or removed. At present Customs and Excise authorities appear to have adopted the principle of no rebate on retailers' stocks although it is obvious that the public will eventually decline to pay the tax after it has been officially removed. Unless some arrangement is made for the institution of a definite system of purchase tax rebates on existing tax-paid stocks, many retailers will find themselves faced with heavy financial losses which they should reasonably be expected to bear.

The precedent set up by the Chancellor of the Exchequer in connexion with the recent removal of purchase tax from a certain range of goods will, if followed, result in difficulty and dissatisfaction in the retail distributing trade. It may be argued that it is not possible to devise a system of refunding the tax already paid on goods in stock, but we can see no reason why retailers should not be allowed to put in claims for rebate on the particular articles affected by the lowering or remission of tax. The amount of tax paid on stocks is known and can easily be checked and verified. It should be remembered that purchase tax, although collected at a fixed rate for the convenience of the Treasury, is in fact, as its title implies, a tax imposed

on, and paid for, by the ultimate purchaser. Are retailers, who have acted throughout the past few years as honorary tax-collectors to be penalised for undertaking this work? Retailers have had thousands of pounds of their capital locked-up in purchase tax since it was first introduced. This has been a dead loss and they have not been permitted to charge a profit on the amount of the tax. It will be a negation of justice if the authorities fail to produce a plan to provide for refund of the tax paid in advance on unsold goods. The scale of financial loss likely to be suffered by retailers if no action is taken will be very considerable. The Chancellor of the Exchequer should ignore his precedent and make every endeavour to avoid injustice in this respect.

## Testimonial to Teamwork

SINCE the announcement was made of the formula of Paludrine (see *C. & D.*, February 2, p. 153), more has become known of the properties and limitations of the compound, as well as of the steps that led to its discovery. The most recently available issue of the "Annals of Tropical Medicine and Parasitology" is devoted exclusively to a series of papers on the study of various chemotherapeutic antimalarials, culminating in Paludrine, and the value of co-operative research work between chemists, biologists and clinicians has never been more clearly demonstrated.

From the first it was evident that the real need was for a preventive—or causal prophylactic—drug rather than one for suppressive or curative treatment; also, since cases of malaria cannot always be under medical supervision, for a compound that was effective by mouth. The onset of malaria is characterised by three phases—the sporozoite, "tissue," and blood phases. The "tissue" phase is a period of incubation between entry of the sporozoites and their appearance in the red cells of the blood. Previously no drug was known that had any effect on the malarial parasite at that stage.

The method of research was first to produce what amounted to a standardised injection in chicks and then to establish a routine of administration of known and



new compounds. When this was done the likelihood of useful activity in any new compound became quickly apparent, and it could be tested in more detail. The conclusion was reached that a pre-requisite of antimalarial activity was the association with a pyrimidine nucleus of both a basic alkylamino group and an aryl group linked together through another grouping capable of prototropic change. In the last-named component the claims of the guanidine group were investigated, and a compound 3349 (2-*p*-Chlorophenylguanidine-4-*p*-diethylaminoethylamino-6-methyl pyrimidine) was produced which was more successful, but not sufficiently to suggest that the aim had been achieved. Research was directed to biguanides, two of which—4430 and 4888—exhibited "quite outstanding" antimalarial properties. To the second of these the name Paludrine was given. This compound has the property of action on extra-red-cell forms of malaria "in such degree" that the research workers of Imperial Chemical Industries, Ltd., "feel justified in hoping the substance will go further than any other." Whether that proves to be so, or whether Paludrine will eventually be superseded by even more effective compounds, remains for the future to show. What is essential is that the teamwork that has produced Paludrine shall continue.

### "The Trend is Up"

THE Chancellor of the Exchequer's announcement in the House of Commons on February 14 that export figures for January (supplied by Sir Stafford Cripps) reached the satisfactory total of £57 millions makes cheerful news to an export-conscious country. It will be a long time before outgoing trade figures reach the high levels envisaged as satisfactory for the post-war years, but £57 millions is at least a step in the right direction. With more people engaged in the export trade during the next few months than before the war, figures are bound to rise, but here a note of caution is necessary. Britain is selling goods at present to world markets hungry for supplies, a situation that cannot last for ever. The export sales curve, although satisfactorily steep at the moment, is bound in the course of a few years to reach a point

where pressure from other quarters will tend to deflect its direction. The severe competition that will undoubtedly be met must best be parried in advance by ensuring that British goods, even at this time of emergency selling, provide all that could be desired in appearance, price, quality, and design to meet the exact needs of the overseas buyer. Monthly export figures, although important for statistical purposes, do not tell the whole story of export progress. The establishment of goodwill by personal visits and appropriate publicity, together with a thorough knowledge of the foreign customer's requirements, are priceless assets not shown in trade returns. Only by building up foreign trade on sure foundations can we hope to hold our ground during the testing time to come.

### Statistics at a Glance

THE first issue of the new "Monthly Digest of Statistics," prepared by the Central Statistical Office in co-operation with the statistics divisions of Government departments (H.M. Stationery Office, price 2s. 6d.) is an imposing publication that will undoubtedly find a useful place on the desks of industrialists, economists and others interested in obtaining an up-to-date picture of the changing pattern of the economic activity of this country. Some of the information given in the tables is not new, being available in greater detail elsewhere, but the enterprise shown in bringing the figures together in an easily accessible form is to be commended. The January issue contains information under the headings of employment, fuel and power, raw materials, manufactured goods, agriculture and external trade, merchant shipping, inland transport, finance, wages and prices. The scope of the publication will be revised from time to time to include new statistical information as it becomes available. A separate publication, "Definitions of Industries and Units," for use in connexion with the monthly series, costs sixpence.

**Commercial Conditions in Eire.**—A leaflet, "Eire, a Review of Commercial Conditions," by Mr. G. F. Braddock, C.B. (H.M. Senior Trade Commissioner in Eire) has been issued by H.M. Stationery Office.

## LABOUR'S HEALTH PLANS OUTLINED

In an address to the North London Pharmaceutical Association and Branch of the Pharmaceutical Society on February 8, DR. S. TAYLOR (a member of the Government's Health Services Committee) suggested some of the probable changes that would concern pharmacy when "Labour's Plans for a National Health Service" came before Parliament. He emphasised that, as it was a parliamentary rule that no Party should be informed of a Minister's proposals before another; therefore he could only state his personal views.

### Various Plans Reviewed

Dr. Taylor reviewed the changes that had taken place in the health services since the beginning of the recent war, when the Emergency Medical Scheme was initiated by the then Minister of Health. This, he said, had provided a basis upon which to build a National Health Service. Many bodies had published reports upon the health services; those of P.E.P. and the British Medical Association were not dissimilar, while the Medical Planning Research Society, of which he himself was a member, produced an "opposition" report. Universality, a predominant feature of the Beveridge report, had been in great measure accepted by the National Government, and resulted in the White Paper. The former Minister of Health had produced an alternative plan as a compromise. The Labour Party and Socialist Medical Association favoured a whole-time service based on local authorities.

### Hospitals and Health Centres

Dr. Taylor's surmise was that all hospitals would be taken over by the Minister, who would run them through regional boards, consisting of the representatives of health workers, the universities and the doctors. Clinics were likely to pass to the control of major authorities and, with other services, to operate from health centres. He thought that general practitioners would be employed by an *ad hoc* board and receive a basic salary plus capitation fee. Competition could be avoided by pooling the fees for each centre. This might result in some competition between adjacent centres, so that the capitation fee must be small in proportion; direction of doctors might be necessary to equalise distribution. He agreed with the Minister's views on the purchase of practices, as already announced, provided compensation was adequate. His

suggestion was that a health centre should be a place where general practitioners would operate in groups of about twelve, covering a population of about 20,000. Private practice might be permitted outside the centre, probably in a different area, though he thought this would die out, especially if the service proved efficient. A dispensary would be included in the centre, but the patient should have free choice of pharmacist. In time, he thought, patients would prefer to have their medicine from the centre, given a service of equal quality. This would lead to a steady decline in dispensing at retail shops, and he emphasised that pharmacists ought to claim a sufficiently high salary for qualified persons employed at health centres, as the claim might be the foundation of remuneration for the majority of the profession in years to come. Hospital pharmacists had in the past been poorly paid.

### Future of the Pharmacist

Associated with changes taking place in the treatment of patients by the giving of single pure drugs, the speaker foresaw a decline in the taking of complex mixtures, while health education should lead to a greater discrimination by the public in the use of proprietary medicine. Pharmacists of the future might find increased scope in research and manufacturing laboratories. In health centres they might develop new functions such as the organisation of medical supplies and biochemical testing, for which pharmacists were by training particularly suited. He visualised a health-maintaining service controlled by biochemical and biophysical testing, whereby the exact dosage of drugs could be determined. It was probable that the Health Service Bill would give wide regulating powers to the Minister.

### Psychological Factors

MR. F. RILEY, in discussion, said that the Minister should not lose sight of the psychological effect of changes upon people who relied upon the vast store of knowledge possessed by pharmacists. DR. TAYLOR agreed, and said that, until more doctors were available, the proposed service could not be run efficiently. He thought that the distance from a centre would influence attendance.

MR. G. F. WEISS foresaw considerable delay in building health centres if the present housing programme were any criterion. He had found that clinics rather encouraged the medicine-taking habit, and



a long time would be required to divest the patient of his belief in the need for the bottle of medicine. DR. TAYLOR thought that about 2,000 centres would be required. 500 would be available within five years, during which time chemists would be able to assess more accurately the future demands for their services; adaptation of existing buildings would reduce the time necessary.

MR. GRANT emphasised that, when overhead expenses had been taken into account, the chemist had been performing, unknown to the public, a voluntary service in carrying out Insurance dispensing. Another speaker said that the doctors might look forward to a well-rewarded service, whereas the Government might say that the pharmacist, doing twice the previous amount of dispensing, should receive only a small additional fee. Should new equipment be obtained during the interim period, he asked, if the Government was going to control pharmacists' services eventually? DR. TAYLOR thought the retail pharmacist would

be in a similar position to that of a general practitioner who elected to remain outside the health centre. Similar treatment should be demanded.

MR. G. A. TOCHER said he had observed the present system for thirty-five years, and there had been little or no change in outlook of the individual patient. The incidence of medicine was five times greater in London than in Scotland, owing to the prescribing habits of the practitioners.

#### Limit on Free Choice

MR. STEWART pointed out that, if doctors were permitted to have private patients in the areas in which they resided, patients would be unable to have the doctor of their choice in an emergency. DR. TAYLOR admitted that a night rota would be necessary, in which case free choice could not exist in an emergency. A vote of thanks to the speaker was proposed by THE PRESIDENT of the Pharmaceutical Society (Mr. J. Young).

## FIRST BRITISH DEATH FROM DDT INSECTICIDE

STATED at the inquest to be the first of its kind in this country, the death of a farm worker from drinking an insecticidal solution containing DDT was the subject of an inquiry at Hayle, Cornwall, recently. The man, a bachelor aged fifty, was found dead in the kitchen of his house with his father, aged seventy-nine, also dead in the room. A police officer stated that the son was seated at the end of a table on which was a cup containing a small quantity of liquid, which was found to be identical with the contents of a DDT fly spray in a barn nearby. The county pathologist for Cornwall said the death of the elder man was probably caused by respiratory distress occasioned by the heavy content (14 per cent.) of carbon monoxide found in his blood, and inhaled presumably from a small iron stove in the room. He must have died at about 6 p.m., the younger man some time later. In the stomach of the younger man he found about 4 oz. of a yellow oily fluid, which had the same odour as the DDT spray. Witness thought probably deceased had consumed 4-5 oz. of the fluid, and he attributed death to poisoning resulting from drinking the solution. The pathologist then mentioned that the case was the first recorded in the country of a death occurring from drinking the new insecticide. Only one other case had been recorded in the world, and that was a child

one year old, in Kenya, who had drunk 1 oz. of similar solution and died within twenty-four hours. Little was known about the poisonous action of the material, but under certain conditions preparation containing 2 per cent. DDT might constitute a serious hazard or risk. Deceased had about 6 oz. kerosene in his stomach, apart from the DDT. According to the few cases reported, that was definitely poisonous. Whether one could implicate the DDT at all in the death of the man seemed doubtful. It seemed more likely that the kerosene caused the death and that the fact that there was DDT solution in it was purely accidental. The man was not marked poison, though obviously the solution it contained was poisonous. Any person could purchase it in the open market. He thought tins containing the solution should be marked poison and ought not to be allowed about where children could get at them. A police officer pointed out that the cardboard case in which the tin was placed bore in red letters a warning that the contents should not be allowed near food or when milking was in progress. On the elder deceased, the coroner, who sat without a jury, recorded a verdict of death by misadventure. The verdict in the younger man was that he took his life while the balance of his mind was disturbed.

## PHARMACEUTICAL SOCIETY OF NORTHERN IRELAND

The monthly meeting of the Pharmaceutical Society of Northern Ireland was held in Belfast on February 15, the president (Mr. James McDowell) in the chair. Messrs. J. W. Gray, J. P. (vice-president), John McGregor (treasurer), C. Abernethy, Walter O'Fate, J. Glendinning, H. H. Cowzer, E. F. Moore and J. T. Nicholl, Professor B. C. Mayrs and Dr. S. E. A. Acheson were present, and the secretary (Mr. D. L. Patrick) and assistant secretary (Mr. W. Gorman) were in attendance.

THE SECRETARY reported receipt of a letter from a Royal Air Force corporal about the demobilised asking what arrangements were stipulated for the re-engagement of former pharmaceutical students. He pointed out that he had gained three subjects at Queen's University, Belfast, in 1936, but had not been registered as a student. It was decided to inform him that he should apply to Queen's University, which might make him a concession in the outstanding subjects as that re-engagement was a matter for the Ministry of Labour. It was mentioned that three persons studying for Part I of the examinations are having their expenses paid by the Government under educational schemes.

### Grant Refused

A letter was received from the principal of the technical school, Magherafelt, stating that in 1942-43 and 1943-44 the Society had given grants of £50 towards the cost of pharmacy classes. In the latter session the number of applicants had been small, and no classes had been held, but the chemistry course had now been resumed. The teacher's expenses were £57 10s., and lighting, heating and materials £10, against which there were receipts of £24 for fees and £18 as a grant from the Ministry. The Council was asked to consider renewing its grant. THE SECRETARY said that under the new regulations the school would not have suitable facilities for practical instruction in chemistry and physics. On the motion of Mr. McGREGOR, seconded by Mr. COWZER, it was therefore decided not to make a further grant.

### Scheduling of Oestrogens

The Ministry of Home Affairs wrote in reference to a conference that had taken place on December 20, 1945, between Dr. Roche Lynch (on behalf of the Proprietary Association of Great Britain) and Professors Lowry and Mayrs and the Council on the

subject of oestrogenic substances, stating that further representations had been made by the Association, and asking for the views of the Council.

PROFESSOR MAYRS said a recommendation would be made to the Medical Faculty to adhere to the decision that the substances should be scheduled. MR. NICHOLL said that, after the previous meeting on the subject, he was satisfied that this was the right decision, and he moved that the Council should adhere to its previous resolution. This was seconded by MR. GRAY and approved.

After the insertion of a new clause dealing with the educational qualifications for apprentices, the draft regulations were ordered to be sealed on the motion of MR. McGREGOR, seconded by MR. GRAY, and forwarded to the Ministry of Home Affairs for signature. It is expected that the regulations will be presented to Parliament at an early date.

### Examination Matters

The examiners' reports on the December 1945 examinations were received. In the Preliminary Scientific (Part I, chemistry) Dr. C. J. Still wrote that 54 per cent. of entrants were successful. Of these the majority did quite good papers, a few being excellent. The practical tests showed some weakness on the qualitative side, though the quantitative was fairly well done. On botany Dr. M. J. Lynn said "Of the thirty-four candidates who presented themselves for examination, twenty-one obtained pass marks in botany, but three were not allowed to keep the pass because they had failed in one or more other subjects. Of the thirteen candidates who failed to reach pass standard, ten failed in the other three subjects, and of the remaining three, one candidate was referred in botany only. The standard of answering was on the whole higher than at the previous examinations, especially in the practical work." Professor K. G. Emeleus reported on physics "The standard of work was on the whole rather lower than it has been in recent examinations. On the theoretical side, candidates picked questions fairly evenly from the whole set, no question or group of questions being generally avoided. The answers to the electrical questions were less satisfactory than answers to the other questions. In practical work, the non-electrical questions were usually done well, and the electrical usually badly, or not attempted. A number of



candidates informed me that they had done no practical electricity."

In the Final Qualifying (Part II, chemistry), Dr. Still said "The percentage of passes was high, amounting to 74. The candidates reached a reasonably high standard and some very good theory papers were received. The practical work was good and the candidates worked neatly and methodically."

### High Standard in Pharmacy

On pharmacognosy, Mr. G. Perrins reported "The answers given in the written examination were concise and generally free from useless matter. In the practical examination work was well done. There is one criticism. In one question, candidates were asked to recognise a mixture of three drugs. In only one case was the third drug named; the remainder were content to name two only. The evasion of this question leads to reduction in marks." Mr. Perrins wrote on pharmacy "The written paper was answered well, but more attention should be given to Question 1, which calls for an explanation as well as a method of preparation. In the practical pharmacy paper, work was of a high standard. The measurement of liquids was much better than formerly, and the dispensing of all items on the paper was appreciated. In certain cases, carelessness in dispensing resulted in referring candidates; this was inevitable in view of the high standard expected from such candidates. Weak candidates from the June examinations, with one exception, returned with greatly increased knowledge, and showed much improvement. Doses and prescription reading were good, and no failures in these were reported. It is to be hoped that the high standard may be even better in the next examination."

### Letter to Ministry of Education

MR. ABERNETHY drew attention to the terms of the report by Professor Emeleus on the electrical side of the physics examination, and moved that a letter should be sent to the Ministry of Education for its information. Students, he said, were obviously not getting proper instruction in this subject.

MR. MCGREGOR, who seconded, agreed that the teaching was not suitable, and MR. GRAY said the day might come when the Society should build out and have its own classes. MR. COWZER said students felt that the Society should be able to remedy the situation in such cases. It was agreed that the letter should be sent to the Ministry of Education.

On the motion of MESSRS. MCGREGOR and MOORE, it was decided to reappoint the examiners, with the substitution of Dr. J. Driver in place of Dr. Still, who is ineligible.

### Coming-of-age Dinner

MR. MOORE mentioned that 1946 marked the coming-of-age of the Society, and said would be appropriate to celebrate the occasion; it was decided that a dinner should be held early in December. MR. GLENDINNING mentioned that a dinner would be held in Londonderry at the end of February, to which the president and secretaries had been invited. THE PRESIDENT said he would be delighted to be present.

THE PRESIDENT said Mr. Kirkpatrick wished to give up his duties at the end of March, but members were of the unanimous opinion that he should carry on until June.

Mention was made of the fact that a laboratory at headquarters intended for the use of the examiners had not been greatly used, as there were facilities at the college of technology; no action was taken.

THE PRESIDENT said that, under the new Pharmacy Act, teachers of pharmacy were not entitled to sign certificates if they were not on the Northern Ireland Register. It was agreed that any persons to whom the Act applied should be informed of the fact. Subjects for the post-graduate course commencing at the Belfast College of Technology on March 6, at which the lecturer is to be Mr. C. W. Young, will be colloids, adsorption, emulsions, vitamins and the ductless glands.

### Pharmaceutical Society of Rhodesia

The decision was taken recently to transfer the headquarters of the Pharmaceutical Society of Rhodesia from Salisbury to Bulawayo for a period. The annual meeting of the Society was accordingly held at Bulawayo on October 27, 1945. Thirty-two members were present. The retiring president (Mr. Edward Watson, Salisbury) reviewed his years of office, and emphasized the importance of negotiations that had resulted in the supply through pharmacists of dispensed medicines to the dependants of the armed Forces, and eventually to other branches of war and social service in Rhodesia. The following officers were elected for the ensuing year: *President*, Mr. A. A. T. Favard; *Secretary*, H. J. Bradford, P.O. Box 594, Bulawayo; *Treasurer*, Mr. E. S. Cohen. Messrs. Anderson and C. M. Warren were elected members of the executive committee.

## CORRESPONDENCE

### Choice of Antibiotic

MR.—One can but wonder if retail pharmacists' interests will be guarded when along last penicillin is released commercially in England and what restrictions will be applied to sales. Penicillin is not a poison. I view the exaggerated remarks about strains of germs being produced resistant to this drug, if it is used frequently, as decadent. Assuming this is strictly true, rather then would I read of something constructive like the production of new antibiotics such as streptomycin.

RAYMOND SMITH.

### Forty-hour Week

MR.—I must differ from the views expressed by Mr. Lattimer on the forty-hour week (*C. & D.*, January 16, p. 217). With regard to France's collapse in 1940—does your correspondent recall that a war was then in progress, and that France had been "led" for years by quislings like Daladier? Therefore, the forty-hour week had nothing to do with her collapse. I am sure that plenty of work and production are essential in Britain—and everywhere else—that matter—but with proper planning there is no doubt but that all countries could introduce the forty-hour week and still produce enough for export and to maintain a high standard of living at home. Long hours will not secure good and adequate production for ever—they may help in short periods now and again, but I am sure that even doctors and pharmacists could today do a better job (and be better paid) if they could reduce their average working day to six hours. Most retail establishments during the war did 100 per cent. more business in less hours of opening than in pre-war days. In any case, if opening hours are lengthened again the shift system could be introduced.

E. C. HASKINS.

### Industrial Clothing Coupons

MR.—It is to be hoped that the Minister of Health is more kindly disposed towards pharmacists and their assistants than the President of the Board of Trade. I have heard repeatedly to get my staff included among those entitled to the "industrial" clothing coupons. I have tried to convince the local authority (the Ministry of Labour official) that chemists' assistants are engaged in the "manipulation of heavy and fine chemicals" or "bottling of chemical mixtures" and so on, but have

been met with a very firm refusal. My latest attempt proved most disheartening. I was shown a more comprehensive list than T.C.46, where amongst persons listed in capital letters as not entitled to the "industrial ten" are "chemists' assistants." The official whom I interviewed suggested that, as there did not appear to be a trade union, we might apply to the Pharmaceutical Society to take up the case!

R. E. BELL.

## POISONS BOARD

THE Home Secretary has announced the constitution of the Poisons Board, 1945-48, under the Pharmacy and Poisons Act, 1933. The names of members and details of the appointing authorities are as tabulated below:—

Name	Appointing Authority
Mr. Bertram Reece, <i>Chairman.</i>	Secretary of State for the Home Department.
Major W. H. Coles, D.S.O.	
Mr. E. J. Mount.	Secretary of State for Scotland.
Mr. J. M. Johnston, M.D., F.R.C.S.	
Mr. J. N. Deckett.	Minister of Health.
Mr. W. P. Kennedy, Ph.D., F.R.I.C., L.R.C.P., L.R.C.S., B.Sc.	
Mr. C. T. Gimingham, O.B.E., B.Sc., F.R.I.C.	
Mr. G. M. Bennett, M.A., D.Sc., F.R.I.C. (deputy: Mr. J. R. Nicholls, D.Sc., F.R.I.C.).	Minister of Agriculture and Fisheries.
Mr. W. Deacon, C.B.E., M.Sc., M.P.S., J.P.	Government Chemist.
Mr. C. W. Maplethorpe, Ph.C., F.R.I.C.	
Mr. H. N. Linstead, O.B.E., Ph.C., M.P.	
Mr. H. Noble, B.Pharm., Ph.C.	
Mr. A. Wilson, M.P.S.	Pharmaceutical Society of Great Britain.
Professor Sir Francis Fraser, M.D., F.R.C.P.	
Mr. D. M. Lyon, M.D., D.Sc., F.R.C.P. (Ed.)	Royal College of Physicians of London.
Professor David Campbell, M.C., M.D.	
Mr. G. Roche Lynch, O.B.E., M.B., B.S. (London), D.P.H. (Eng.), F.R.I.C.	Royal College of Physicians of Edinburgh.
Mr. J. W. Bone, M.B., C.M. (Ed.), B.Sc.	General Medical Council.
	Royal Institute of Chemistry of Great Britain and Ireland.
	British Medical Association.



## OVERSEAS TRADE NEWS

**Trinidad Drug Imports.**—Imports into Trinidad during 1944 of drugs and medicinal chemicals were valued at \$894,370, compared with a 1938 value of \$304,964.

**Mexican Pharmaceutical Factories.**—During the past five years forty-one chemical and pharmaceutical factories have been established in Mexico.

**Colombian Cinchona Bark.**—During the first nine months of 1945 shipments of cinchona bark from Colombian ports totalled 732,579 kilos.

**Belgian Congo Essential Oils.**—During the first ten months of 1945 exports from the Belgian Congo and Ruanda-Urundi included 4,173 lb. geranium oil and 1,112 lb. lemongrass oil.

**Brazilian Pyrethrum Crop.**—The 1945-46 pyrethrum crop of Rio Grande do Sul, Brazil, is expected to reach 2,000 metric tons, according to preliminary estimates. This figure represents a substantial increase over the previous year.

**Sale of U.S. Military Material.**—A message from Oslo states that an office of the U.S. Foreign Liquidation Commission has been opened there for the sale of surplus American military material. Items offered include medical equipment.

**Canadian Synthetic Rubber Prices Revised.**—Alterations in the prices of synthetic rubber in Canada have been announced by the Reconstruction Minister to be effective from February 1. Canadian supplies of natural rubber amount to approximately 1,500,000 lb. per month at the present time.

**Congo to Produce More Palm Oil.**—M. Pierre Rychkams, Governor-General of the Belgian Congo, has appealed to the population to increase 1946 production of palm oil to 30,000 tons above the 1945 figure, as the Congo's first step in the world food campaign.

**Penicillin for German Civilians.**—A Reuter message states that sixteen hospitals in Greater Hesse, in Western Germany, are now receiving allocations of penicillin from the Allied Government for the free treatment of civilians suffering from venereal diseases. Doctors in private practice may not use penicillin.

**U.S. Linseed Denial.**—A Washington message states that a U.S. Government spokesman has denied rumours that Russia would obtain the largest percentage of Argentine linseed or linseed oil or both and said that

the Combined Food Board had not worked out the world allocations of linseed and oils.

**Indian Industrial Institutes.**—With foundation stone laid for the new Indian Central Glass and Ceramic Research Institute at Jadavpur, near Calcutta, there has been considerable discussion about the future of the country's glass industry. The lack of highly-trained technicians has been felt for some time. Similar Institutes including national chemical and physical laboratories, are to be established.

**Research on Iodine.**—The Iodine Educational Bureau of America is sponsoring extensive research programme in an effort to discover properties of iodine and compounds which will increase their industrial applications. Research has already commenced at the Batelle Memorial Institute, Columbus, Ohio. It is pointed out that although wide applications of iodine in medicine, photography and nutrition are well known, the element has received little attention from industrial scientists.

**Savannah Rosin and Turpentine Market.**—Advices from Savannah indicate that considerable demand for rosin is expected in the coming weeks. Removal of the quotas and limitations is not anticipated to produce much reaction in the soap industry, since the shortage of fats and oils is restricting output of civilian soaps. The Government stockpile of turpentine has been virtually exhausted and the supply situation is tightening, although many consumers are turning to wood turpentine, which is available at a price below the maximum. The 1945 crop was about 12,250,000 gallons of gum turpentine and approximately 660,000 drums of rosin of 520 lb. net each.

**Lard and Vegetable Oil Production in U.S.**—Production of lard in the U.S. is close to a normal level. Meanwhile, the earmarking of 5 per cent. of production for the Government, effective from February 1 (previously 3½ per cent.), will ensure meeting of export commitments during the first quarter of the year. On the other hand, transactions on the domestic market have been restricted due to an expected increase in prices. Vegetable oils are in a tight position, and the possibility of near urgent demand for grains may restrict plantings this year. Linseed oil supply is becoming more acute and crushing is declining with the petering out of supplies.

# TRADE REPORT

quotations for pharmaceutical chemicals, crude drugs and essential oils represent the prices for wholesale quantities of standard quality. C.i.f. quotations do not include exceptional marine risk insurance and other abnormal charges payable under present conditions.

## 8 Essex Street, W.C.2, February 20

Improvement can be noted in business conditions during the past week in the chemical and drug markets. Buyers continue to outnumber sellers and the supply situation shows little sign of change. Prices are generally quite stable with changes amounting to only a few pence in either direction. In PHARMACEUTICAL CHEMICALS makers and dealers report steady conditions with business up to normal average. Reasonable stocks of most chemicals are available, but in a few instances business is restricted by lack of supplies.

## Crude Drugs

As far as price changes are concerned the past week in these markets has been without interest. A few minor movements are noted but their effect on the general price position has been negligible. Requests for crude drugs continue to be received from overseas, but in some instances the quantities required are quite beyond the scope of the London markets. It is understandable that some countries, bereft of supplies for some years, should now expect to replenish their stocks, but it will naturally be some time before this can be achieved. A good deal of inquiry is noted for AGAR. It is understood that small allocations will shortly be made for Curacao ALOES. Demand for ANTIMONY metal continues to exceed available supplies. BENZOIN is in demand but remains unobtainable. CARDAMOMS are scarce and firm but prices are no higher. CHILLIES are quiet with little change at the spot. GUM ACACIA is steady at the level figure mentioned last week. MENTHOL is unaltered. A fair business is reported in NUX VOMICA for manufacturing purposes. PIMENTO is steady at last week's quotation. DILL SEEDS continue to be the only variety available at present.

## Essential Oils

There are now practically no supplies of imported oils available outside the control scheme. Some ANISE (STAR), however, is reported to have been offered at a high price. English-distilled CLOVE BUD is steady at the last-quoted figure. The position of oils within the control scheme is unchanged.

## Import Licence Recommendations

The Directorate of Medical Supplies have informed the Botanical Drug Import Merchants' Section of the London Chamber of Commerce, 69 Cannon Street, London, E.C.4, that they propose to recommend import licences for limited quantities of quince seed, henna leaves, gelsemium root, arnica flowers and rhizome, calumba root, horehound herb, lavender flowers and lime tree flowers during the period ending December 31, 1946. The Botanical Drug Import Merchants' Section will therefore be glad to hear not later than March 1, 1946, from firms who during the years 1936 to 1941 inclusive imported any of these drugs. By "imported" is meant "arranged the shipment and paid the overseas supplier." On receipt of this information the Section will send qualified importers the necessary form of declaration on which a return of importations can be made and which will form the basis for the issue of import licences.

## Exchange Rates on London

Bank of England fixed rates at the opening on Wednesday morning were:—

Centre	Quoted	February 20
*Alexandria ... ..	Piastres to £	97½-97½
Brussels ... ..	Francs to £	176½-176½
*Chungking ... ..	Per Dollar	2½-3½
Copenhagen ... ..	Kroner to £	19.32-19.32
Dutch West Indies	Florins to £	7.58-7.62
Paris ... ..	Francs to £	479.7-480.3
Lisbon ... ..	Escudos to £	99.80-100.20
Montreal ... ..	Dollars to £	4.43-4.45
New York ... ..	Dollars to £	4.02½-4.03½
Stockholm ... ..	Kroner to £	16.85-16.95
Zurich ... ..	Francs to £	17.30-17.40

\*Free market rates

## U.S. Drug Market Report

New York, February 15

LITTLE change in the supply and demand conditions recently prevailing among FINE CHEMICALS has been in evidence. Items in good demand include BISMUTH SALTS, ACETYSALICYLIC ACID, LANOLIN and CAMPHOR TABLETS. Among other prescription items, the effects of the steel strike are becoming more apparent and it is expected that the position of the SALICYLATES and PHENOBARBITAL will deteriorate further. PENICILLIN is moving out to priority consumers in quantities sufficient to meet all



requirements while QUININE, also under Government control, is in good demand. Despite a further decline in the production of GLYCERIN in December (according to information released by the Bureau of Census), stocks showed a substantial increase, attributed to imports. Production amounted to 11,759,000 lb. against 13,427,000 lb. in November and stocks totalled 45,718,000 lb. compared with 42,842,000 previously. The easy tone in MERCURY, MENTHOL and the TARTRATES continues. Purchases of ROTENONE and QUINIDINE by the U.S. are to continue under Civilian Production Administration recommendations, it is learned, though private trading in rotenone should be established by the end of the year. Improved imports of this latter material are expected with a resumption of shipments from the Dutch East Indies though the present contract for the purchase of the Peruvian crops, which expires in May, has not been renewed. Until adequate Far-Eastern supplies of QUINIDINE are brought on to the market, the public purchase of this item from Latin-American sources will continue, it is stated. Pre-war stocks discovered in Holland and the development of synthetics have not served to substantially alleviate the world shortage of quinidine. Prices of many CRUDE DRUGS show an upward tendency on a moderately active market. Among many items still in short supply are COCILLANA BARK, PEPPERMINT LEAVES, PSYLLIUM SEED and PAPAIN. There has been some easing in the SENEGA ROOT supply position, however, while demand for GUM ACACIA has fallen off somewhat. Commodities detained by the Food and Drug Administration include SESAME SEED, dried EGG ALBUMEN and PEPPERMINT OIL. Meanwhile, the War Food Administration is reported to be seeking more than 50,000 lb. of PEPPERMINT OIL. Chinese ANISEED OIL is being offered at \$2.75 to \$3 per lb., according to latest advices; buyers' ideas are not above \$2.50, however. Greater demand for FLAVOURING OILS is expected this year, with a predicted increase in the demand from soft-drink manufacturers. BOIS DE ROSE, PETITGRAIN and LEMONGRASS are extremely scarce while reports regarding the release of surplus Government-owned Italian LEMON now indicate that the material must be repacked before disposal. The Essential Oil Association states the Dutch Government is considering delivering any available oils to a centralised agency in the U.S. for distribution.

## Pharmaceutical Chemicals

**ACETANILIDE.**—Powder is quoted by mass at 2s. 5d. per lb., and crystals at 2s. 6d.

**ASPIRIN.**—In good demand at unchanged rates. Home market prices per lb., in quantities of 28 lb.—1 cwt., are as follows (containers in brackets): 4s. 1½d. (1-lb.); 4s. (4-lb.); 3s. (7-lb.); 3s. 10½d. (14-lb.); 3s. 9½d. (28-lb.)

**ASPIRIN TABLETS.**—Bulk supplies are quoted at the following rates per 1,000: Under 5, 3s. 6d.; 5,000 and over, 3s. 4d.; 10,000, 3s.; 25,000, 3s. 1d.; 50,000, 3s.; 100,000, 2s. 1d.; 250,000, 2s. 10½d.; 500,000, 2s. 10d.; 1,000, 2s. 9d.

**BARIUM SULPHATE, B.P. (x-ray).**—Home market prices per lb. are as follows:—

Quantity	In containers of				
	1 lb.	4 lb.	7 lb.	14 lb.	28 lb.
Under 4 lb.	s. d.	s. d.	s. d.	s. d.	s. d.
4 lb.—7 lb.	1 10	—	—	—	—
7 lb.—14 lb.	1 8	1 7½	1 6½	1 5½	—
14 lb.—28 lb.	1 7	1 5½	1 4½	1 4	—
28 lb.—112 lb.	1 6	1 4½	1 3½	1 3	—

Prices net one month.

**BISMUTH CARBONATE.**—Prices per lb. for home market, in quantities of 14-lb.—28-lb. as follows (containers in brackets): 11s. (1-lb.); 11s. 1½d. (2-lb.); 11s. 1d. (4-lb.); 11s. (7-lb.); 10s. 11½d. (14-lb.). CITRATE per lb. above; SALICYLATE, 6d. per lb. above; SUBGALLATE, 4s. 3d. per lb. above; SUBNITRATE, 2s. 2d. per lb. below.

**BORAX.**—Current rates per ton are as follows: B.P. quality, granulated, £38; crystal, £39 10s. Commercial grades, £8 ton less. Packed in one-cwt. bags, delivered carriage paid in Great Britain, in one-ton and upwards.

**BORIC ACID.**—Current rates per ton are as follows: B.P. quality, granulated, £60; crystal, £61; powder, £62. Commercial grades, £8 ton less. Packed in one-cwt. bags, delivered carriage paid in Great Britain, in one-ton and upwards.

**BROMIDES.**—Current prices per lb. for Potassium, in 28-lb. lots, are as follows (containers in brackets): 3s. 2½d. (1-lb.); 3s. 1d. (4-lb.); 2s. 11½d. (14-lb.); 2s. 10½d. (28-lb.). SODIUM, 1½d. per lb. less, and AMMONIUM, per lb. more, than above rates.

**BUCRINE.**—Current rates per oz. are as follows: ALKALOID.—Under 25 oz., 1s. 4d.; 25 oz. and under 100 oz., 1s. 4d.; 100 oz. and under 500 oz., 1s. 3½d. NITRATE and SULPHATE.—Under 25 oz., 1s. 3½d.; 25 oz. and under 100 oz., 1s. 3d.; 100 oz. and under 500 oz., 1s.

**CHLORAL HYDRATE.**—Current prices 1 cwt., 3s. 10d. per lb.; 56 lb., 4s.; 28 lb., 4s. 2d.; 14 lb., 4s. 6d.; 7 lb., 4s. 9d.; 3.5 lb., 5s. 3d.

**STRATES.**—Prices per lb. current in the home market for POTASSIUM CITRATE, in quantities of lb.—1 cwt., are as follows (containers in brackets): 3s. 7½d. (1-lb.); 3s. 6d. (4-lb.); 3s. 5d. (7-lb.); 3s. 4½d. (14-lb.); 3s. 3½d. (lb.). **FERRI ET AMMON. CIT. B.P.**, 2d. per lb. above; **SODIUM, B.P.**, 3d. per lb. below; **PURER**, 1d. per lb. extra.

**ODEINE.**—Current prices per oz. for small are as follows: **Base.**—½ oz., 55s. 3d.; 1 oz., 52s. 9d.; 2 oz., 51s. 3d.; 3 oz., 50s. 6d.; 4 oz., 50s. 3d. **HYDROCHLORIDE.**—½ oz., 50s.; 1 oz., 47s. 6d.; 2 oz., 46s.; 3 oz., 45s. 3d.; 4 oz., 45s. **PHOSPHATE.**—½ oz., 43s. 9d.; 1 oz., 43s. 9d.; 2 oz., 39s. 9d.; 3 oz., 39s.; 4 oz., 39d.

**EXTROSE.**—Prices per lb. current in the home market for bulk supplies are as follows: 10–28 lb., in 14-lb. lots, 1s. 0½d.; 28 lb.—1 lb., in 14-lb. lots, 1s.; in 28-lb. lots, 11d.

**AMORPHINE.**—Current rates per oz. for small quantities are as follows: **Base.**—½ oz., 56d.; 1 oz., 56s.; 2 oz., 54s. 6d.; 3 oz., 54s. 9d.; 4 oz., 53s. 6d. **HYDROCHLORIDE.**—½ oz., 54s. 3d.; 1 oz., 51s. 9d.; 2 oz., 50s. 3d.; 3 oz., 49s. 6d.; 4 oz., 49s. 3d.

**HYLMORPHINE.**—Small quantities are quoted per oz. by makers as follows: **Base.**—½ oz., 61s. 6d.; 1 oz., 59s.; 2 oz., 57s. 6d.; 3 oz., 56s. 9d.; 4 oz., 56s. 6d. **HYDROCHLORIDE.**—½ oz., 53s.; 1 oz., 50s. 6d.; 2 oz., 49s.; 3 oz., 48s.; 4 oz., 48s.

**UCOSE.**—Powdered monohydrate for the home trade is quoted as follows: 14 lb.—28 lb., in 14-lb. lots, 11½d. per lb.; 28 lb.—112 lb., in 14-lb. lots, 11½d.; in 28-lb. lots, 10½d.

**OMATROPINE.**—Makers' prices per oz. are as follows (prices per gram in brackets): **ALOID.**—1 oz., 97s. 6d.; 4 oz., 92s. 6d.; 1 lb., 87s. 6d. (4s.). **HYDROCHLORIDE, HYDROBIDE and SULPHATE.**—1 oz., 75s.; 4 oz., 75s.; 16 oz., 65s. (3s. 2d.).

**DINE PREPARATIONS.**—Current rates are as follows: **POTASSIUM IODIDE, B.P.**—112 lb., 9d.; 28 lb., 9s. 9d.; 14 lb., 10s. 3d.; 7 lb., 9½d.; 4 lb., 12s. 3½d.; smaller quantities, 9d. per lb. **SODIUM IODIDE, B.P.**—28 lb., 2d.; 14 lb., 10s. 8d.; 7 lb., 12s. 5½d.; 4 lb., 11½d.; smaller quantities, 13s. 11d. **IODIDE, B.P.**—28 lb., 13s. 4d.; 14 lb., 13s. 10d.; 7 lb., 16s. 0½d.; 4 lb., 16s. 10½d.; smaller quantities, 17s. 8d. **IODIFORM CRYSTALS.**—2s. per lb. above powder prices. **IODINE RESUBLIMED.**—112 lb., 10s. 8d.; 28 lb., 11s. 2d.; 14 lb., 11s. 8d.; 7 lb., 13s. 5½d.; 4 lb., 14s. 1½d.; smaller quantities, 14s. 10d.

**ACTATES.**—Prices are as follows: **LACTIC ACID.**—Six-winchester lots, 3s. per lb.; smaller quantities, 3s. 1d. **CALCIUM LACTATE.**—Small quantities, 2s. 5d. per lb. **CALCIUM SODIUM LACTATE.**—Powder, small lots, 3s. 7d. per lb.; 10–30 lb., 3s. 4d.; 28 lb., 3s. 2d.; granular, one penny per lb. extra.

**MAGNESIUM CARBONATE, LIGHT.**—Home market prices per lb., in lots of 28 lb.—1 cwt., are as follows (containers in brackets): 1s. 4d. (1-lb.);

1s. 2½d. (4-lb.); 1s. 1½d. (7-lb.); 1s. 1d. (14-lb.); 1s. (28-lb.). Prices net one month.

**MAGNESIUM CARBONATE, HEAVY.**—Prices per lb. for the home market, in quantities of 28 lb.—1 cwt., are as follows (containers in brackets): 1s. 7d. (1-lb.); 1s. 5½d. (4-lb.); 1s. 4½d. (7-lb.); 1s. 4d. (14-lb.); 1s. 3d. (28-lb.).

**MAGNESIUM TRISILICATE.**—Prices per lb. in the home market, in quantities of 28 lb.—1 cwt., are as follows (containers in brackets): 3s. 9½d. (1-lb.); 3s. 8d. (4-lb.); 3s. 7d. (7-lb.); 3s. 6½d. (14-lb.); 3s. 5½d. (28-lb.).

**MANDELIC ACID.**—Current quotations are as follows: 1 lb., 22s. per lb.; 4 lb., 20s. 3d.; 7 lb., 18s. 6d.; 14 lb., 16s. 9d.; 28 lb., 15s.

**MANDELATES.**—Makers' quotations are unchanged. **SODIUM AND CALCIUM.**—4 oz., 8 oz., and 1 lb., 22s. per lb.; 4 lb., 20s. 3d.; 7 lb., 18s. 6d.; 14 lb. (in 7-lb. packages), 16s. 9d.; 28 lb. (in 7-lb. packages), 15s. per lb., net. **AMMONIUM (50 per cent. solution).**—4 oz., 8 oz., and 1 lb., 11s. 9d. per lb.; 4 lb., 10s. 9½d.; 7 lb., 9s. 10d.; 14 lb. (in 7-lb. packages), 8s. 11½d.; 28 lb. (in 7-lb. packages), 7s. 11d. per lb., net. Packages extra and returnable.

**MERCURY SALTS.**—The following are the prices per lb. contained in the Control of Mercury (No. 11) Order, 1945 (S. R. & O., 1945, No. 1229):—

	7-28 lb.	28 lb.—1 cwt.	1-2 cwt.	2-5 cwt.
Bichloride, powder ..	s. d. 8 11	s. d. 8 7	s. d. 8 6	s. d. 8 5
Bichloride (industrial) ..	8 11	8 7	8 6	8 4
Bichloride, lump ..	9 6	9 2	9 1	9 0
Ammonium chloride, powder ..	10 6	10 2	10 1	10 0
Ammonium chloride, lump ..	10 4	10 0	9 11	9 10
Chloride (mercurous) ..	10 7	10 3	10 2	10 1
Oxide, red crystalline, B.P. ..	12 0	11 8	11 7	11 6
Oxide, red levigated, B.P. ..	11 6	11 2	11 0	10 11
Oxide, red technical ..	All quantities	per lb.	—9s. 9d.	
Oxide, yellow levigated, B.P. ..	11 4	11 0	10 10	10 9
Oxide, yellow technical ..	All quantities	per lb.	—9s. 9d.	

5 cwt. and over: Bichloride lump, 8s. 9d.; ammonium chloride powder, 9s. 6d.; ammonium chloride lump, 9s. 4d.; oxide red crystalline, B.P., 11s. 4d.

**MERCURY SULPHIDE (VERMILION).**—The following are the prices per lb. contained in the Control of Mercury (No. 11) Order, 1945 (S. R. & O., 1945, No. 1229):—

	7-30 lb.	30 lb.—1 cwt.	1-5 cwt.	5-10 cwt.
Mercury sulphide, red (vermilion) ..	s. d. 10 7	s. d. 10 6	s. d. 10 5	s. d. 10 4

10 cwt. and over, but under 20 cwt., 10s. 3d.; 20 cwt. and over, 10s. 2d.



**METHYL SALICYLATE.**—Smalls are quoted at 2s. 6d. per lb.; winchesters at 2s. 1½d.; 56 lb., in demijohns, 2s.; 1 cwt., in demijohns or carboys, 1s. 11½d.; 5 cwt., 1s. 11d. All prices net.

**PHENOLPHTHALEIN.**—Unchanged at the following prices: Less than 7 lb., 4s. 8d. per lb.; 7 lb., 4s. 7d.; 14 lb., 4s. 6d.; 28 lb., 4s. 5d.; 1 cwt., 4s. 4d.

**POTASSIUM PERMANGANATE.**—Current rates are as follows: B.P. (in 1-cwt. drums), 1 cwt. and over, 1s. 8½d. per lb.; 3 cwt. and over, 1s. 8d. **TECHNICAL** (in 1-cwt. drums), 1 cwt. and over, 166s. 3d. per cwt.; 3 cwt. and over, 161s. 9d.; 5 cwt. and over, 159s. 3d.; 1 ton and over, 156s. 9d.; 4 tons and over, 154s. 3d. **TECHNICAL** (in 5-cwt. drums), 5 cwt. and over, 156s. 9d. per cwt.; 1 ton and over, 154s. 3d.; 4 tons and over, 152s. Terms net, carriage paid station, containers extra and returnable.

**PULV. BISMUTH. CO., N.F.**—Prices per lb. current in the home market, for quantities of 28 lb.—1 cwt., are as follows (containers in brackets): 2s. 6d. (1-lb.); 2s. 4½d. (4-lb.); 2s. 3½d. (7-lb.); 2s. 3d. (14-lb.); 2s. 2d. (28-lb.).

**SANTONIN.**—Prices per kilo are as follows (price per oz. in brackets): 25 kilos, £42 (24s. 10d.); 10 kilos, £43 (24s. 5d.); 5 kilos, £44 (24s. 11d.); 2-4 kilos, £45 (25s. 6d.); 1 kilo, £46 (26s. 1d.); 500 gm., £47 (26s. 8d.); 250 gm., £48 (27s. 3d.); 100 gm., £49 (27s. 9d.); smaller lots, £50 (28s. 4d.).

**TERPINEOL.**—Pure medicinal quality may be obtained at from 3s. 3d. to 4s. per lb., according to quantity.

**THEOBROMINE.**—Current prices are as follows: **ALKALOID.**—Smalls, 44s. 6d. per lb.; 7 lb.—28 lb., 43s. **SODIUM SALICYLATE.**—Smalls, 26s. 6d.; 7 lb.—28 lb., 25s. 3d. Tins extra.

## Crude Drugs

**AGAR.**—Considerable demand is being received for this item, but there are no signs of any supplies coming from Japan. It is felt in some quarters that supplies from Empire sources are insufficient to meet all requirements.

**ALOES.**—It is understood that small allocations will be made for Curacao. Price will be in the region of 230s. to 240s. per cwt., c.i.f.

**ANTIMONY.**—Demand remains in excess of available supplies of metal, but prices are unchanged: English minimum 99.6 per cent. regulus, £125 per ton; 99 per cent., £117 10s., delivered; 70 per cent. crude, for the home trade, £100.

**ARECA NUTS.**—Spot price is unchanged at 85s. per cwt.; shipment, 55s., c.i.f.

**BALSAMS.**—Position and prices are unchanged. *Peru*, spot, 8s. 3d. per lb.; *Canada*, 13s. 6d. to 14s. per lb.; *Tolu* and *Copaiba* are not available at present.

**BELLADONNA.**—English herb is quoted at 4s. 6d. per lb. Low-testing Indian root is unchanged at 2s. 3d. per lb.

**BENZONIN.**—Still in good request, but supplies are available.

**BISMUTH.**—In fair demand at the unchanged price of 6s. 8d. per lb. for metal, in minimum 5-cwt. lots.

**BUCHU LEAVES.**—In small supply on the spot at 5s. 6d. per lb.

**CARDAMOMS.**—Continuing scarce and with Aleppy seed quoted at 8s. 6d. per lb. on the spot; Aleppy greens are at 7s. 3d. to 7s. 6d. per lb.

**CASCARILLA.**—Demand remains good with spot price steady at 3s. 6d. per lb.

**CHAULMOOGRA.**—*Hydnocarpus* is offered at the spot at 2s. per lb., in tins in cases.

**CHILLIES.**—Quiet conditions obtain with price steady at approximately 150s. per ton for spot goods.

**CINNAMON CHIPS.**—In small compass on the spot at the unchanged price of 2s. 2d. per lb. Quills are not available.

**CLOVES.**—Quiet. Price remains at 1s. 10d. per lb. for Zanzibar, landed terms; shipment, February–March, 9½d. per lb., c.i.f., but licence.

**COCHINEAL.**—Silvers are now offered on the spot at 5s. 6d. per lb., and blacks afloat at the same price.

**COCOA BUTTER.**—The official maximum price remains at 1s. 5d. per lb., ex factory or warehouse, but this price may be exceeded with licence.

**COLOCYNTH.**—Steady. Good-quality material may be obtained on spot at from 2s. 6d. to 2s. 9d. per lb.

**DIGITALIS LEAVES.**—Portuguese leaves may be obtained at 140s. per cwt., ex warehouse; English leaves, 2s. 6d. per lb.

**ERGOT.**—Any remaining small supplies of fair-quality material would be worth about 7s. 9d. per lb.

**GINGER.**—West African is quoted on spot at 85s. per cwt.

**GUM ACACIA.**—Kordofan cleaned sorghum steady on the spot at 71s. per cwt.; bleached is unaltered at 145s., and cleaned Talha material at 42s. 6d.

**HENBANE.**—Offers of Indian leaf on the spot are at 250s. per cwt.; Egyptian (*mutica*) is steady at 85s.

**JALAP.**—Material testing 12 per cent. may be obtained on the spot at the unchanged price of 3s. 4d. per lb.

**KAMALA.**—Material testing 6 per cent. is available on spot at 2s. 9d. to 3s. per lb.

**KARAYA GUM.**—Indian No. 1 gum is offered at 210s. per cwt., on the spot.

**KOLA NUTS.**—As noted last week, supplies are now available on spot: African quarters, 8d. per lb.; African halves, 7d.; Jamaican washed halves, 7d.

**MENTHOL.**—The position and prices are un-  
tered. Brazilian continues to be offered on  
at 32s. to 35s. per lb., duty paid, and  
6d., in bond.

**MERCURY.**—Controlled by official Order  
& D., October 13, 1945, p. 388).

the "Metal Bulletin" (February 15) reports the  
bility of the re-establishment of the mercury  
cting organisation, Mercurio Europeo, which  
the war handled the production of the principal  
ish and Italian mines.

**MYRRH.**—Good-quality Aden sorts would be  
with approximately £18 per cwt.

**NUTMEGS.**—West Indian remain in short  
sely. Prices are as follows: 80's, 4s. per lb.;  
ad unassorted, 3s. 10½d.; wormy and  
ten, 3s. 6d.

**OLIVE VOMICA.**—Cochin, washed and garbled,  
quoted from source at 37s. 6d. to 40s. per  
c., c.i.f. Some Cocanada may be had on  
spot at 47s. 6d. per cwt.

**PEPPER.**—Whole, not picked over or cleaned,  
de to processors, is officially priced at 1s. 4d.  
lb. for white pepper and 1s. per lb. for  
black pepper.

**PEPPERMINT.**—Quiet. Price steady at last week's  
of 1s. 3½d. per lb., spot sellers; shipment,  
1s. 6d. per cwt., buyers' licence.

**RAUBARB.**—There are no indications of sup-  
ply from China in the near future, although  
act is being maintained. A few cases are  
rorted to have been offered on spot and  
quickly taken up.

**SEEDS.**—The position as outlined last week  
is unchanged, with only small supplies of DILL  
available at 110s. per cwt., on spot.

**SINNA.**—Alexandrian hand-picked pods  
would be nominal at 4s. per lb. Good manu-  
facturing Alexandrian pods are quoted at 2s.  
per lb.; Tinnevely leaves, No. 1, 10½d., No.  
2, 9d., No. 3, 7d. per lb.

**SAGACANTH.**—Selected grades are firmly  
maintained at £160 per cwt. Medium grades  
are quoted as follows: No. 1 white, £145 per  
c.; No. 2, white, £125; No. 3 white, £110;  
No. 4 white, £85; pale leaf, £50; amber leaf,  
£40; dark amber, £35; brown leaf, £25;  
round-brown leaf, £20; red leaf, from £17;  
dry, £12 to £15.

**SERPENTER.**—Sound-quality Madras finger is  
quoted on spot at 110s. per cwt.; shipment,  
6 c.i.f.

**SILVERIAN ROOT.**—Belgian root will soon be  
coming along; price will be 325s. per cwt.;  
warehouse.

**STAXES.—BEES'.**—Dar-es-Salaam, Govern-  
ment stock, 210s. per cwt., other sorts, 205s.,  
no stock. CARNAUBA.—Fatty grey, spot,  
7s.; nominal; shipment, no offers; chalky  
spot, 700s.; shipment, no offers; prime  
yellow, spot, 825s.; shipment, no offers.  
**CURRI.**—Spot, 450s. **CANDELILLA.**—Spot,  
40; forward, not quoted.

## Essential and Expressed Oils

**ANISE (STAR).**—A spot offer is reported at  
160s. per lb.

**CASTOR.**—Ministry of Food fixed prices for  
bulk lots are: "Firsts," £82 per ton; "seconds,"  
£80, naked ex works.

**CLOVE.**—English-distilled bud oil is quoted  
at 12s. 6d. to 13s. per lb.; according to quantity.

**COCONUT.**—The following are the fixed prices  
for bulk quantities: Crude, £49 per ton;  
refined deodorised, £49; refined hardened  
deodorised, £53.

**COTTONSEED.**—Official quotations are as  
follows: Crude, £52 2s. 6d. per ton; washed,  
£55 5s.; refined edible, £57; refined deodorised,  
£58, naked ex works.

**GROUNDNUT.**—Bulk supplies are officially  
quoted as follows: Refined deodorised, hardened  
to 40°, £62 per ton; refined deodorised,  
hardened to 50°-52°, £63.

**LINSEED.**—Crude is officially quoted at £65  
per ton, naked ex works.

**OLIVE (EDIBLE).**—Drums, 25s. 9d. per gallon  
of 9 lb., ex wharf London.

**PALM KERNEL.**—Bulk supplies are officially  
priced as follows: Refined deodorised, £49 per  
ton; refined hardened deodorised, £53, naked  
ex works.

**RAPESEED.**—Crude is quoted at the fixed rate  
of £91 per ton, naked ex works

## Essential Oils Control

The following is a schedule of prices to users  
in original packages for oils imported by the  
Ministry of Food:—

Basil .. ..	25s. 8d., plus duty
	2s. 3d.
Bergamot .. ..	23s. 10½d.
Camphor .. ..	2s.
Caraway .. ..	20s. 9½d., plus duty,
	1s. 10d.
Cedarwood .. ..	3s. 8½d., plus duty,
	3½d.
Clary sage .. ..	129s. 1½d., plus duty,
	11s. 6d.
Coriander .. ..	128s. 10d., plus duty,
	11s. 6d.
Fennel .. ..	11s. 6d., plus duty, 1s.
Lemon, cold-pressed, or Sicilian .. ..	17s. 4½d.
Lemon, distilled .. ..	11s. 9d.
Lime .. ..	47s.
Nutmeg .. ..	22s. 8d., plus duty, 2s.
Orange, bitter .. ..	18s. 6½d., plus duty,
	1s. 7½d.
Orange, West African	10s. 3d., plus duty
	10½d.
Peppermint .. ..	47s. 1d.
Tangerine .. ..	33s.
Vetivert .. ..	38s. 4d., plus duty,
	3s. 5d.
Wormseed .. ..	15s. 3½d.
Ylang-ylang .. ..	15s. 6½d., plus duty,
	1s. 4d.



## TRADE MARKS

(From "The Trade Marks Journal,"  
February 6)

"ZAHK EL WAHAK"; for soaps, perfumery, essential oils, toilet and cosmetic preparations, hair lotions, dentifrices (3). By Neville Brothers, 12 North Wharf, Gordon Road, West Ealing, London, W.13. B635,538.

"AUGURE"; for toilet preparations, perfumed soap and perfumes (3). By Societe d'Etudes et d'Expansion de la Parfumerie de Luxe, c/o A. W. Parfitt, Stafford House, Norfolk Street, London, W.C.2. 637,284.

"MUSIDOR" and "MUSIDORA"; for brilliantine, dentifrices, bath salts, lipstick, talcum powder, face powder and face cream; soaps, perfumes and hair lotions (3). By Coty (England), Ltd., 3 Stratford Place, London, W.1. 637,552-53 (Both Associated).

"ROBADEN"; for pharmaceutical substances (human and veterinary); sanitary substances; infants' and invalids' foods; medical and surgical plasters, bandage material; material for stopping teeth; dental wax, disinfectants; weed killers and vermin destroyers (5). By Robapharm Laboratories, c/o Elkington & Fife, Bank Chambers, 329 High Holborn, London, W.C.1. 629,092.

"CECON"; for pharmaceutical products (5). By Abbott Laboratories, c/o Marks & Clerk, 57-58 Lincoln's Inn Fields, London, W.C.2. 634,979.

"UVIDIN"; for concentrated preparations of vitamin D for use in medicine and pharmacy (5). By Nutrition Research Laboratories, c/o Stevens, Langner, Parry & Rollinson, 5-9 Quality Court, Chancery Lane, London, W.C.2. 636,699.

"WRAY"; for photographic lenses, projection lenses, photometers, microscopes, sound cameras, optical systems for sound recording, etc., microfilm photographic apparatus, microfilm readers and instruments for tracing rays through optical systems (9). By Wray (Optical Works), Ltd., Ashgrove Road, Bromley, Kent. 636,198.

"ACHILLES," "CRUISER CLASS," "DANAE," "ORION" and "PENELOPE"; for bathing caps (25). By Long & Hambly, Ltd., 51 Highgate Hill, Highgate, London, N.19. 637,711-15.

"DYNA"; for extracts of meat (29). By Dr. Claude Blancpain Fabrique de Produits Alimentaires "Dyna," c/o A. W. Parfitt, Stafford House, Norfolk Street, London, W.C.2. 634,670.

"PERK"; for tomato juice and non-alcoholic drinks made therefrom (32). By Standard Brands Incorporated, c/o Marks & Clerk, 57-58 Lincoln's Inn Fields, London, W.C.2. B633,162.

### APPLICATIONS AMENDED AFTER ADVERTISEMENT

Specification No. 634,702, by British Schering, Ltd., should be altered so as to read,

"Hormone preparations for use in medicine and pharmacy."

### CONVERSION OF SPECIFICATIONS

Section 36 (3) and Rules 6 to 8

To Schedule IV (with amalgamation)

Specification No. 98,668, by A. & F. Pears, Ltd., for laundry preparations, toilet soap, perfumes, toilet preparations, dentifrices

(From "The Trade Marks Journal,"  
February 13.)

"RADAK"; for agricultural and horticultural chemicals, (excluding insecticides, etc. manures and fertilisers (1). By Bradford Fertilizer Co., Ltd., Derwent Mills, Cockmouth, Cumberland. 637,051.

"MASTRAL"; for industrial and scientific chemicals, etc. (1). By The Kingsland Engineering Co., Ltd., 106-08 Kingsland Road, London, E.2. 637,173.

"MONIL"; for hair dyes, hair tints, shampoos (3). By Rushtons (Wholesale) Ltd., 52 West Street, Southport. 627,997.

"VELVARINA" for toilet lotions (3). By H. L. Hornby, 65 Sheep Street, Northampton. 634,997.

Device of a permanent waving apparatus with letter "K" (disclaimed) incorporated; perfumery, soaps, toilet and cosmetic preparations, essential oils, sachets for use waving the hair, and dentifrices (3); hair dressing appliances and apparatus and (11)—in the former Class not by machines; for brushes and combs (21); pins for the hair, hair curlers, wigs, hair and pads, etc. (26). By Kerka's Permanent Waving, Ltd., 77 New Bond Street, London, W.1. 637,011; 637,012-15. (All Associated).

"CARAMBA"; for perfumes, cosmetics, toilet preparations, mouth-washes, perfume sachets, bath salts, etc. (3). By J. Worthington, 210 Ealing Road, Wembley, Middlesex. 637,151.

"STACCATI" and "SOUS-BOIS"; for toilet preparations, perfumed soap and perfume (3). By Societe d'Etudes et d'Expansion de la Parfumerie de Luxe, c/o A. W. Parfitt, Stafford House, Norfolk Street, London, W.C.2. 637,294-95.

"IBCO"; for laundry preparations, perfume, toilet and cosmetic preparations, mouth-washes, depilatories, bath salts, etc. (3). By A. Ibbetson & Co., Ibbetson Works, 10 North Road, Stevenage, Herts. 637,153 (Associated).

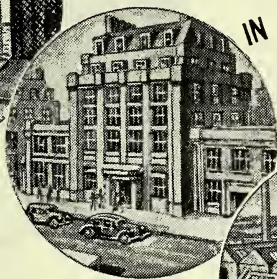
PATENTS, DESIGNS, COPYRIGHT AND TRADE MARKS (EMERGENCY) ACT, 1939

Application for Temporary Suspension of Trade Mark Rights. Section 3; (Emergency) Rules 7 (3) and 8 to 10.

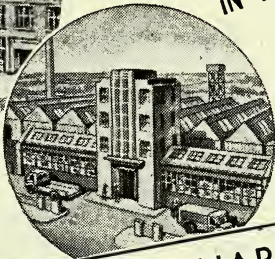
Specifications Nos. 457, 332-33, by Deutsche Gesellschaft für Schadlingsbekämpfung beschränkter Haftung: Imperial Chemical Industries, Ltd., applied on January 18



IN HOMES



IN OFFICES



IN FACTORIES

—there's the  
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‘PANFLAVIN’ Tablets possess a powerful antiseptic that acts when dissolved in the saliva and destroys germs in the mouth—*before* they get a chance to establish themselves. Their chocolate base makes them pleasant to take and, when swallowed, they do not cause irritation or upset to the stomach.

‘Panflavin’ Tablets are packed in handy cartons which can be carried conveniently in handbag or pocket. For use in factories and offices, bottles of 1000 tablets are available.

**Your answer is—**

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BRAND OF THROAT TABLETS



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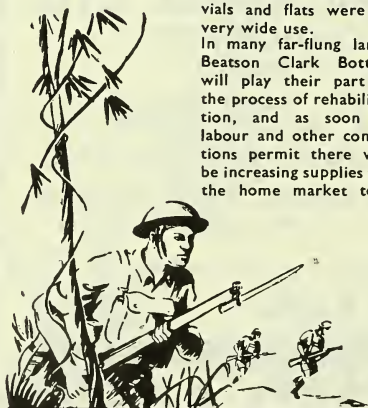




## BEATSON CLARK BOTTLES STILL ON SERVICE

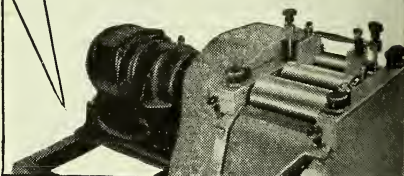


For the treatment of sick and wounded at the base hospitals in the Far East, Beatson Clark dispensing vials and flats were in very wide use. In many far-flung lands Beatson Clark Bottles will play their part in the process of rehabilitation, and as soon as labour and other conditions permit there will be increasing supplies for the home market too.



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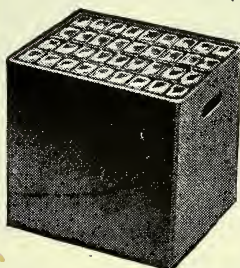
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ALSO . . . Cork mouth bottles  
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Ranging in size  $\frac{1}{2}$  oz. up to 3 oz.  
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MANUFACTURED IN BEST QUALITY  
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*Restrictions outside our control, may  
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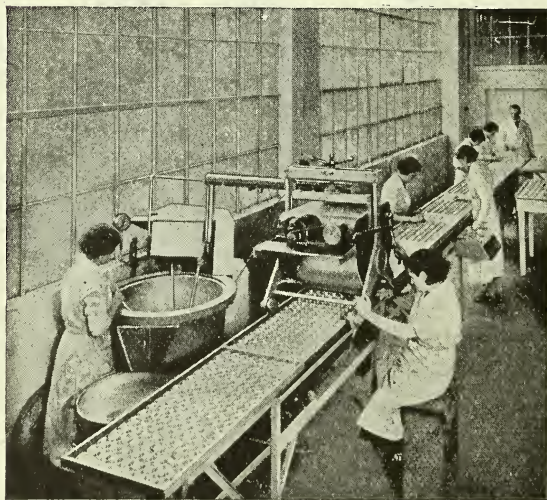
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**SANITARY TOWELS**  
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*Always the Best*  
**TOILET PAPER**  
*Velvety texture • soft*  
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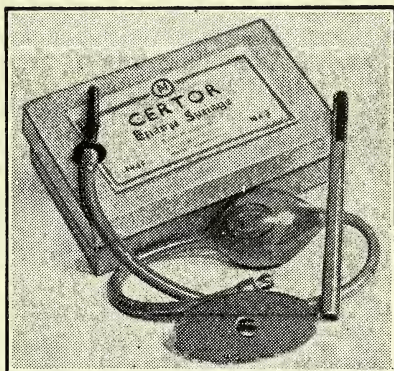
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**SURGEON'S  
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*Smooth or rough finish*



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FOOT APPLIANCES**

- ARCH SUPPORTS
- HEEL GRIPS
- FOOT BANDAGES
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Made in a wide range of standard and adjustable fittings.  
Prompt attention given to special orders and Doctors' prescriptions.

Write for full particulars to the Manufacturers:—

**EMSA WORKS & HERBERT FOOT APPLIANCE LTD.**  
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**MENE**  
SANITARY TOWELS

**MENE**  
SOLUBLE

★ NAMES WITH A REPUTATION  
BUILT ON WOMEN'S TRUST

Our restricted output is shared equally—as far as is humanly possible—among our trade friends.

**ROBINSON & SONS LIMITED**  
CHESTERFIELD AND LONDON

# If You're out of One Recommend the Other

In these days, when, do what we will, we cannot always cope with demand, there is an added advantage in the two Parmints.

All our press advertising features both Parmints and mentions their prices.

At the moment the ready for use Parmint Syrup is in short supply. If you are temporarily out of stock, recommend your customers to take a bottle of the Parmint Concentrated Essences.

Both are both

**PATA**

and



## PARMINT

*Concentrated Essences*

and

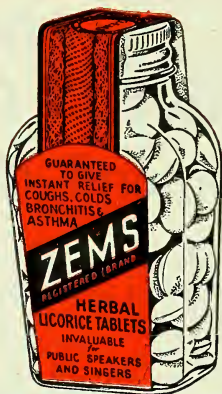
## PARMINT SYRUP



INTERNATIONAL LABORATORIES  
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**P.A.T.A.**

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## **HERBAL LICORICE TABLETS**

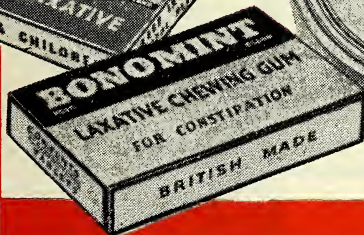
**THE BEST MEDICATED TABLETS  
FOR COUGHS, COLDS,  
ASTHMA, BRONCHITIS, ETC.**

*Supplies may be obtained from C.F.  
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well-known  
products in  
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P.A.T.A.

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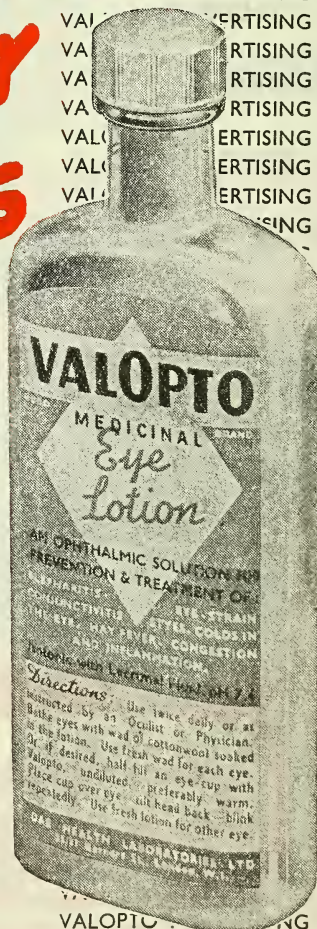
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newspapers, magazines, posters,  
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— THAT is why there is an ever-mounting demand for Valopto, the *modern* eye lotion.

Retail Price : 2/-, inc. tax.

**TERMS :**

15/- per dozen. Purchase tax (16 2/3%) is 2/6 per dozen. Minimum Order carriage paid is 2 dozen. Send cheque for £1 15s. 0d. for 2-dozen order.



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Types of High Class machinery for fine chemical and similar trades, including laboratory equipment.

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Each ounce contains a natural Vitamin B potency equivalent to that of 25 mgm. Aneurin. Hydrochloride, 1.4 mgm. of Riboflavin, and 5.6 mgm. Nicotinic Acid. Each tablet contains 100 I.U. (approx.) Vitamin B<sub>1</sub>.

100 TABLETS 3/6d. 50 TABLETS 2/3d.

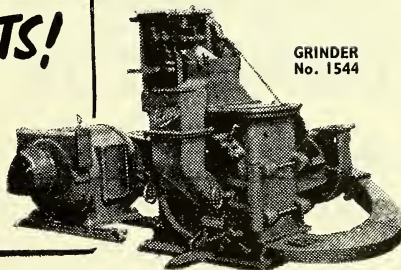
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The best way to ensure satisfaction in grinding is to call the experts—Porteus. Not only do they know what machinery is required, but they can and do invariably advise the best type for the job in hand. Lengthy experience in design and construction is at your service—why not write now?

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LEEDS BRIDGE WORKS, LEEDS 10



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PROCESSED OATMEAL**

Only the pick of the Scottish Oat crop is used in its preparation.

ESPECIALLY SUITABLE FOR INFANTS,  
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AND THE AGED**RETAIL SELLING PRICES**Medium 1 lb. tin 1/4 2 lb. tin 2/6  
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BISMEAL  
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**HONEY****BULK AND PACKED****FOR MANUFACTURING  
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## ELASTIC HOSIERY

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For special garments to measure  
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### SURGICAL BELTS RUSSES AND SUNDRIES

50 years' service of  
everything Surgical

### SURGICAL HOSIERY CO. LTD.

Russell Street - NOTTINGHAM

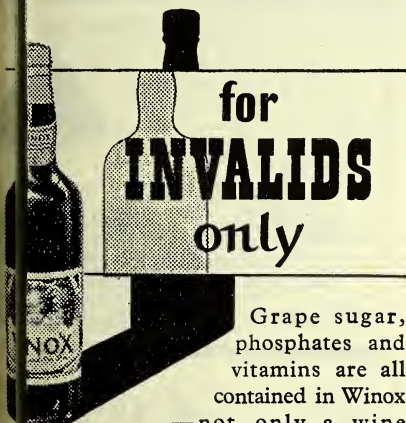
Telephone No. 75903 Telegrams: Surgical Nottm.



The public are being told repeatedly that their supplies of soft drinks depend upon the immediate return of empty S.D.I. bottles. Unless YOU and all retailers accept empties whenever offered, the bottlers will be unable to maintain the existing quotas of soft drinks.

**PLEASE ACCEPT ALL S.D.I. EMPTIES AND  
RETURN THEM TO YOUR SUPPLIERS**

*Issued by The Soft Drinks Industry (War Time) Association Ltd., 42 Upper Grosvenor Street, London, W.1.*  
CVS-38



by a predigested food acceptable to enfeebled digestions. Because supplies are short, please help us to reserve available stocks for invalids *only*. Per bottle 12/-.

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Dependable Pharmaceu-  
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### AMINOPHYLLINE

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We shall be glad to quote  
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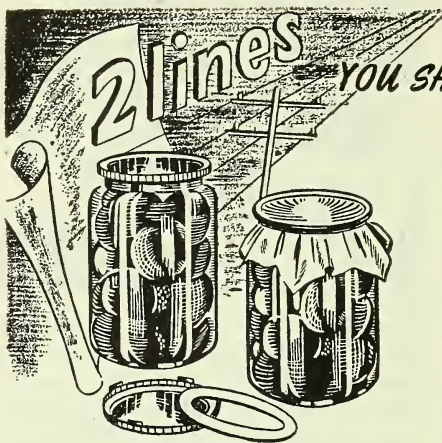
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Caps and Rings retail 3/4 doz., including tax.

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No. 1 Skin retails 1/6 and 4/- per roll, tax free. Sufficient to seal at least 6 and 12 jars respectively.

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*Make Money  
out of the  
Moth Menace*

*Sell*  
**PROMOL**



**MOTH  
RINGS**

RETAIL AT

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PER  
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Whole-  
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48/- Per Gross

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Horse Remedies**

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Supplies can now be obtained  
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**Wan  
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Supplies are short  
definitely worth a  
your wholesaler  
Twenty-five y  
reputation for  
quality still main

**LONDON AND PROVINCIAL FACTORS LTD**  
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When you are asked for  
**'a jar of  
T.V.R.'**



*This is  
what  
is  
wanted*

**For health and  
hygiene in the home**

**BOON DORAL ANTISEPTIC  
BOON SKIN SALVE  
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1. Boon Products embody new antiseptics, of higher, more uniform germicidal power than those previously available. 2. New bases enhance the healing efficiency of these antiseptics. 3. Boon Products are pleasant to use, non-poisonous, non-irritant, non-staining. Full particulars (packings, terms, etc.) from the Sole Distributors to the Chemist Trade:—

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Skin Diseases*

**ESOBAN  
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OINTMENT**

**Southon**

Specific in many infected skin diseases especially Ringworm, Pruritus, Impetigo, fungoid affections (Athlete's Foot, etc.). Consists of 25% U.F.I.—the new bacteriostatic (vide Lancet 14-7-45, p. 42)—incorporated in ESOBAN Ointment.

Available in jars at 3s. 4d.

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including Purchase Tax.



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LTD  
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*Your  
Dental Supplies*

## SELTO PRODUCTS IN STEADY DEMAND

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In bottles 1/10½; refills 1/7 (inc. tax).

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an oxygenating immersion Denture  
Cleanser. Bottles 2/2 and 1/3 (inc. tax).

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for use with a brush and especially suit-  
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Display terms show approximately 39% profit  
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**SELTO (Eastbourne) Ltd.,**  
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TOOTHBRUSH  
cleans them ALL!*

Already wide interest is being shown  
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"QUIZ" the Teethbrush, because it  
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### FRAGRANT TONIC HAIR CREAM

MAKES THE HAIR BEHAVE

### MY LADY'S VANISHING CREAM

loveliness and charm—Delicately perfumed.

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ELS FOR THESE LINES—6/- per gross.

FUME—COLOURING—BOTTLES—JARS.

ALSIFIERS—Needing hot water only to give  
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*For Grey or Faded Hair.*

**S. SIGAL & CO, LTD.**

MANUFACTURERS OF EXCLUSIVE  
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5 shades packed in colourful boxes and powder-proof bags. RACHELLE, NATURAL, PEACH, OCHRE ROSE, ROSETAN, CREOLE. Your orders for this Nationally Advertised Complexion Powder can be executed promptly.

**1/4 & 4/-**  
INCLUDING TAX

Orders for Lipstick Refills accepted for delivery as and when available under quota restrictions.

**2/8**  
INCLUDING TAX

All enquiries to—  
**ANDERSON & REEVES LTD., 157/161 REGENT ST., W.1.**  
Telephone: Regent 1965.

## ZENIA

ANTISEPTIC

# Baby Cream

FOR NAPKIN RASH

and common  
skin ailments



**MOTHERS BUY IT ON SIGHT!**

A little of this gentle, soothing antiseptic cream should be lightly massaged into skin each time baby is bathed or napkin is changed. Prevents irritation and soreness. Promotes healing. Small counter display will create brisk and steady demand. Attractively labelled and packed.

**WIDELY ADVERTISED Retail Price 2/6d. including tax.**  
Trade 18/6d. doz. plus 3/1 purchase tax.

From your wholesaler, or direct if preferred. We pay carriage on 3 doz. orders.

**SALE TILNEY & CO. LTD., 3 LLOYDS AVE., LONDON, E.C.3.**

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## DENTIFRICE



BOUGHT ON DISPLAY TERMS YIELD  
PROFIT ON:—

SELLING PRICE

BUYING PRICE

**39%**

**63.6%**

Eucryl Tooth Paste has an increasing Sale.

**EUCRYL LTD.**  
**SOUTHAMPTON**

# BETTER VALUE

means  
*Quicker* **SALES**  
*Quicker* **PROFITS**

Roll Call Brushless Shaving Cream represents greater value for money—quicker turnover—quicker profits!

Now is the time to stock this Quicker—Slicker selling line.



**NOW IN  
TWO SIZES**

5/9 per doz. (Purchase Tax 1/11). Retail Price Incl.  
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Purchase Tax: 1/6d.

**IONIC LABORATORIES LTD., SLOUGH, BUCKS.**  
Scottish Distributors: The Southern Manufacturing Co.  
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# *The rush Season for INFLUCOL* *is on us NOW*

—because of the Common Cold, the public want all the INFLUCOL that we can supply—we are doing our best. Give it prominence.

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Compound Oral Vaccine ★ TO PREVENT & TREAT COLDS

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Order your Optabs  
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The Optab Season is here! Be prepared for the demand created by the aggressive advertising campaign now being placed covering the entire Country.

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for Years.**

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YE LOTION TABLETS

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## LARGEST SURGICAL DRESSING MANUFACTURERS IN THE WORLD

Makers of the famous 'ELASTIKON' elastic adhesive bandages and plasters, 'Zo' plasters, 'BAND-AID' adhesive dressings, N.H.I. dressings, 'NEAT-EDGE' non-fray W.O.W. bandages, suspensory bandages, crepe bandages, 'FAIRLIE' cotton wool, Red Chain and all B.P.C. and hospital quality dressings.

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SHAMPOO

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# The CHEMIST AND DRUGGIST SUPPLEMENT

Supplement is included in every copy of Chemist & Druggist

FEBRUARY 23  
1946

28 ESSEX STREET, LONDON, W.C. 2

Printing restrictions and heavy demand on space necessitate the holding over of a number of advertisements week by week. As normal press days are in abeyance advertisers are advised to send their advertisements as early as possible. Advertisements must be prepaid. Box Office Numbers 1/- extra.

## SITUATIONS OPEN

40 words or less, 2d. for every additional word.

### RETAIL (HOME)

**ON-UNDER-LYNE CO-OPERATIVE SOCIETY, LTD.** Pharmacist required to branch; no Sunday or half-holiday Apply, giving full particulars to Co-operative Ltd., "Arcadia," Stamford Street, Ashton-ne.

**CH Managers** are required by London Co-operative Chemists Limited for progressive in various parts of London. Applications from lady and gentleman Pharmacists, members of the Forces who are shortly to be discharged. Enquiries in the first place to London Chemist, 54 Maryland Street, Stratford, E.15.

**CH MANAGER** required. Lady or gentleman qualified. Easy hours, good salary and prospects for capable person. State age, experience and salary expected. Frank Leslie, 100 Broadway, London, S.E.6.

**CH Manager** required immediately by Dewsbury Pioneers' Industrial Society Limited. Letter giving full particulars to Superintendent, 41 Northgate, Dewsbury.

**ST.** Unqualified, required to assist with dispensing. Permanency. Superannuation operation and good wages, hours and conditions of employment generally. Applications, age, experience, salary required, etc., should be sent to the General Manager, Newcastle Co-operative Society Ltd., 117 Newgate, Newcastle-on-Tyne, 1.

**ST-OPTICIAN (O.B.A.C.)** required to take charge of business, at present carried on as Dispensing and Optician, to be converted to Pharmacy full particulars as to salary required, etc., to be sent to Goodall, 94 Burley Road, Leeds 3.

**IRE.** Qualified, or unqualified, male or female Assistant required for busy country branch. No half-holiday or Sunday duties. Please send details and salary required age, Chemists, Tarporley, Cheshire.

Pharmacy with large Business in Ships' Stores requires unqualified assistant. Good for keen and conscientious worker. Apply particulars to 954/616, C. & D. Office.

**OF ENFIELD, LTD.,** have an attractive vacancy at their Mill Hill Branch for an Assistant, lady or gent, high-class 1 area. No Sunday or half-day duties. Mr. Ross, 476 Hertford Road, Enfield. No. Howard 1723.

**THAM, ESSEX.** Timothy Whites & Co. have a vacancy for a Qualified Manager Equerry Corner Branch. Energetic man used to counter and H.I. dispensing. Excellent prospects. Apply Retail Staff Manager, Equerry Corner, London, S.W.1.

**DEVON.** Qualified Assistant, male or female, urgently wanted. Good and permanent position offered to experienced person. Apply, giving full particulars of experience and salary required, and state earliest time available. Hooper, Ltd., Church Hill, Lynton.

**DIRECTOR.** Pharmacist required in London, with sound business ability for private company; three good-class businesses. Assist in general management. Small investment, good salary, percentage of profits. 953/579, C. & D. Office.

**DISPENSER.** Bookkeeper wanted by doctor in Derby. 953/580, C. & D. Office.

**EASTBOURNE.** H. R. Browne requires a qualified assistant. (Single.) Suit recently qualified with good experience. State salary, enclose photograph if possible. Apply 44 Cornfield Road, Eastbourne.

**EXPERIENCED** Lady Assistant required for counter work—no holiday duties. Would consider gentleman; other assistants kept. Nettle's Pharmacy, 18 Upper Tooting Road, S.W.17.

**GLOUCESTER.** Qualified Branch Manager for new small branch. Permanency and good prospects for right man. Flat may be available in near future. Send full particulars to Mr. R. Maxwell Hill, Gloucester Co-operative and Industrial Society Ltd., Brunswick Road, Gloucester.

**GOOD** Reliable Qualified Assistant for small busy middle-class main road North Staffs Pharmacy. Good Money. 954/605, C. & D. Office.

**HEPPELLS.** West End Chemists require for post-war reorganisation qualified and unqualified ladies and gentlemen. Juniors also required as trainees, Pharmacy and Toilets. Please apply for interview or 'phone Victoria 2204. Superintendent, HepPELLS (1932), Ltd., 70 Vauxhall Bridge Road, S.W.1.

**HULL.** Energetic Qualified Pharmacist required for busy Pharmacy. Prospect of Managership of a new branch shop within a few months, if suitable. Apply stating age, experience and salary required. Reference. 954/601, C. & D. Office.

**IMMEDIATELY** required Qualified Manager for busy S.W.1 London Pharmacy. Excellent opportunity for progressive man. No half-day or Sunday duties. Good salary and prospects. 953/584, C. & D. Office.

**LADY** Assistant, experienced, for counter duties. North-West London. Apply Lewis & Burrows, Ltd., 146 Holborn, E.C.1.

**LEICESTERSHIRE.** Qualified Manager required for Pharmacy in country district. Good prospects to anyone able to revive somewhat neglected business. Modest living accommodation available. Permanency. Apply 952/559, C. & D. Office.

**LONDON, W.2.** Energetic Manager required for working-class branch pharmacy. Must be used to N.H.I. dispensing. Apply, stating salary required. 952/561, C. & D. Office.

**LONDON, W.** Branch Manager required for good-class Pharmacy. No Sunday or half-holiday duties. Apply in first instance to Mr. Ball, c/o F. E. Lever, Ltd., 151 Westbourne Terrace, London, W.2.



**MAIDSTONE (Kent).** Unqualified assistant (permanent) required as Dispenser for Branch. State age, height, experience and salary required in first letter to Managing Director, Stonham & Son, Ltd., 70 Bank Street, Maidstone.

**MIDLANDS CITY.** Pharmacist wanted for management of good medium-class branch. Congenial employment with good prospects. No living accommodation at present. Apply 952/560, C. & D. Office.

**NORTH-WEST Seaside Resort.** Qualified or unqualified Male or Female Assistant required May to October for busy Pharmacy. Congenial situation. Write giving full details salary, etc. 954/603, C. & D. Office.

**NOTTINGHAM.** Unqualified assistant (male) required for recently converted city pharmacy; good salesman and window dresser; must have drive and initiative; ex-service preferred, or those in early demobilisation groups may apply. Reply, stating full particulars, copies of recent testimonials, 940/466, C. & D. Office.

**ORRIDGE & CO.,** Employment Agency, Columbia House, Aldwych, W.C.2, invite inquiries from Pharmacists and Unqualified Persons requiring Situations, except women between the ages of 18 and 41. Progressive vacancies available. Excellent opportunities exist for Unqualified Assistants.

**PETERBOROUGH MEDICAL INSTITUTE** require the services of a Dispenser, Lady or Gent, morning and evening surgeries. No Sunday or half-holiday duty. The hours do not exceed thirty per week; suit anyone who is seeking a light post. Applications, with copies of references, full particulars and salary required, to the Secretary, 15 New Road, Peterborough.

**QUALIFIED Manager (Locum would be considered) and Qualified Assistant** urgently wanted. Also good counter hands. Old established business in Leytonstone district. State salary required. Apply 119 Marine Parade, Leigh-on-Sea, Essex.

**QUALIFIED Branch Managers,** permanent or temporary, required immediately for Wrexham district; also locums for holiday relief from May to October. Please apply with full particulars to L. Rowland & Co., Ltd., Chemists, Brook Street, Wrexham, N. Wales.

**QUALIFIED or unqualified Lady Assistant** required for dispensing counter and window-dressing. Please state experience, references, and salary required. Blakely Pharmacies, Ltd., 112 Mauldeth Road, Manchester 20.

**QUALIFIED Lady or Gentleman** required for Retail Dispensing business. No Sunday or Holiday duty. Good Salary offered. Apply W. T. Battrick (Chemists) Ltd., 34-36 New Park Road, Brixton Hill, S.W.2.

**ROYAL ARSENAL CO-OPERATIVE CHEMISTS, LTD.,** invite applications from Qualified Pharmacists for the position of Manager; Unqualified Assistants also required; good prospects and holidays with pay. Apply in writing, stating age, experience and salary required, to the Superintendent Chemist, Royal Arsenal Co-operative Chemists, Ltd., 113 Powis Street, Woolwich, S.E.18.

**UNQUALIFIED Male Assistant** required for Counter and Dispensing. No Sunday or Holiday duties. Salary £6 weekly. Apply E. Tranmer, M.P.S., 42 High Street, Smethwick, Birmingham.

**UNQUALIFIED Assistant** wanted immediately, experienced in dispensing and counter, good hours, no Sunday or Holiday duties. Apply General Manager, Palmers Stores, Hammersmith, W.6.

**UNQUALIFIED Gentleman** required for responsible position with an old-established Pharmacy. Good references essential; interview. Young & Co., Chemists, 1 East Barnet Road, New Barnet, Herts.

**WANTED, Qualified Chemist,** temporary position. Not liable for H.M. Forces or National Service. Applications stating age, experience, and required to be sent to the West Stanley Co-operative Society Limited, Front Street, Stanley, co. Du.

**WANTED Dispenser-Secretary,** some medical experience an advantage, in Medical Surgical practice. Apply with references to Lyons, M.D., F.R.C.S., 12 The Avenue, Lincoln.

## LOCUMS WANTED

**LOCUM Pharmacist** take charge holiday inclusive required London Area. May to September inclusive. Apply 954/614, C. & D. Office.

## RETAIL (OVERSEAS)

**WEST AFRICA.** A permanent and progressive career is offered to Qualified Chemist Druggists (English Certificate only). Commence salary £50.0 to £60.0 per annum according to Separation and Children's Allowance (Married). Tour of 21 months' duration. 4 1/2 months' leave full pay, free passages, furnished quarters, medical attention and membership to Pension Fund. Only giving full particulars to "Y. F." c/o C. Barker & Sons Ltd., 31 Budge Row, London.

## WHOLESALE

**ANALYTICAL Chemist** required, previous experience in drug and galenic assay essential. Please give full particulars of age, experience and salary, to Pharmacy Superintendent, Timothy & Taylors Ltd., Burley Hill, Leeds, 4.

**ASSISTANT Manager** required in Professional Information Department (West London) doing an important group of companies manufacturing medicines, dental hygiene requisites a division. Must be M.P.S., B.Sc., or possessor of equivalent knowledge in therapeutics and allied sciences able to instruct and supervise a team of representatives. A flair for writing professional literature an advantage. Applications giving qualifications, experience and salary desired Box J.1230, Bensons, Kingsway H.L, London.

**CHEMICAL Manufacturers** require additional representative staff for the North of England. Duties involve the contacting of medical practitioners, hospital pharmacists, wholesale and retail pharmacists. A pharmaceutical qualification essential, and experience in a hospital dispensary would be an advantage. Age 28-35. Permanent positions. Apply in writing to Pen Officer, May & Baker Ltd., Dagenham, Essex.

**CHEMIST (B. Pharm. or equivalent)** required as a leading Pharmaceutical House to take over their laboratories situated near London. Essential in laboratory control of Pharmaceutical Products in preparation of ethical products is essential post offers good prospects for a chemist qualified and experienced. Replies in confidence Managing Director, 949/458, C. & D. Office.

**COSMETIC Representatives** required for all U.K. by established and progressive firm. Company. Experienced men will receive good and all expenses; exceptional scope. Ex-Servicemen preferred. Write, tabulating resume of career covered, previous employers, age, etc. Box 600, Poof's, Aldwych House, London, W.C.2.

**COSMETIC Company** require fully qualified Chemist to take complete control, including buying, Production and Staff. Similar experience essential. Write stating age, experience and required, Box A.7896, Samson Clarke, Mortimer Street, W.1.

**EXPERIENCED Counter Hands,** male or female for wet and dry Drug packing required by London Drug House. Apply with details of age, experience, etc. 952/562, C. & D. Office.

**ST-CLASS** Firm of Manufacturers require representatives for various territories. Applicants should have good connexions amongst Chemists, Wholesalers. Contacts with other trades an advantage. The lines are well presented and advertised. Terms are a commission basis which earn our travelling an average of £900 per annum. Write in detail—your letter will be treated confidentially. 954/602, C. & D. Office.

**ES** Lang, 7 Charlton Place, Islington, N.1; have vacancy for clerk having full knowledge of Pharmacy and Medical Bottle trade.

**IVE-WIRE** Representative required calling on Chemists, Wholesalers, Retailers with good connexions for wholesale cosmetic distributors. A good job to right man. Apply to 100, c/o Pool's, Aldwych House, London, E.C.2.

**N** required with experience in the manufacture of all types of Toilet Preparations. Write stating age, salary and experience, to Box 620, Ltd., Brettenham House, Strand, W.C.2.

**UFACTURERS** of Plastic Mouldings require reliable salesmen to represent them on a commission basis in all parts of the British Isles. 950/491, C. & D. Office.

**UFACTURING** Laboratory: Pharmacist required immediately to take charge of laboratory, North of England firm. Experience in use of sterilizing plant, sterilization by Autoclaves essential. Write stating age, salary, experience when available to Brady & Martin, Ltd., Northumberland Road, Newcastle-on-Tyne, 2.

**ESTABLISHED** Manufacturing Chemists in North-West London suburb require Production Manager, experienced in the wholesale manufacture and control of all types of Pharmaceutical products. Permanent and progressive career for man. Also vacancy for female charge-hand for assembly. Write in confidence to 954/613, C. & D. Office.

**REPRESENTATIVE:** Pharmacist required to call on doctors and hospitals by well-known firm North of England. Car available when required. Write stating salary, age, experience and availability to Brady & Martin, Ltd., Northumberland Road, Newcastle-on-Tyne, 2.

**LES MANAGER** required with practical experience of Sales organisation and general business for wholesale cosmetic distributor. Only those with thorough experience need apply. Good Salary and percentage of turnover. Apply Box 99, c/o Pool's, Aldwych House, London, W.C.2.

**OR Assistant Chemist** required by Manufacturing Chemists in S.W. Lancs. Work mainly of pharmaceutical analysis, experimental in formulation and development of products. Prospects for a keen man with personality and qualifications. Give full details, including references. 953/593, C. & D. Office.

**H STAFFS.** Small multiple retail firm wishing to produce comprehensive range of counter goods and packed goods for sale through own requires services of someone experienced in goods work, not necessarily a pharmacist but capable of undertaking formulation and production lines. 954/617, C. & D. Office.

**ET Coater** required by Midland Manufacturing Chemist. Write stating age and experience to 632/749, C. & D. Office.

**TRAVELLER** required, calling on chemist shops, to carry additional line, *MENDAC*, commission 10 per cent. on all orders received. 950, C. & D. Office.

**VACANCY** occurs in Birmingham area for unqualified with some experience of stock-maintenance, stock-recording or stock-taking. Applicants must be good at figures. Apply 953/581, C. & D. London Office.

**WANTED,** Salesman with knowledge of Pharmacy and with existing connection among Chemists, to introduce on a commission basis two well known proprietary lines in Southern Counties. Apply by letter, Reade Bros. Ltd., Wolverhampton.

**WELL-KNOWN** London firm of Pharmaceutical Manufacturing Chemists requires Pharmacist to supervise a section of production. Permanent position, good prospects. Apply in writing with full particulars to 952/543, C. & D. Office.

**WELL-KNOWN** Lancashire Manufacturing Chemists require Chemist to take charge of Manufacture of wide range of medicinal and toilet preparations, also to develop new lines. Previous similar experience desirable. Ph.C. qualification essential. Permanent and progressive post. 954/606, C. & D. Office.

**YOUNG Assistant Production Manager** required for Factory manufacturing and packaging proprietary branded products in West London. Applicants must have a chemical, chemical engineering or engineering qualification. Ability to control both male and female staff is essential and preference will be given to applicants with previous experience in packaging products on conveyor tables. Commencing salary £550. 954/618, C. & D. Office.

## WHOLESALE (OVERSEAS)

**SOUTH AFRICA.** Excellent opportunity for ambitious, well-educated qualified Englishman (28-36) as works chemist to leading Pharmaceutical House. Must have thorough experience in galenical and tablet production, sterilisation processes, etc., and in handling works staff. Good salary and prospects. Passage paid. Interview London. Full details in confidence, 954/604, C. & D. Office.

## SITUATIONS WANTED

2/6 for 18 words or less, 1d. for every additional word.

## RETAIL (HOME)

**MAIDSTONE**—Margate District. Qualified Lady used to single-handed management. Excellent experience and references. Or would purchase small high-class Pharmacy. 951/518, C. & D. Office.

## WHOLESALE

**ADVERTISER (47)** Unqualified. 31 years experience. Desires position of trust, with firm specialising in proprietary lines. Toilets and Chemists packed goods. Excellent knowledge of packaging and of packaging and filling machinery, factory routine and administration. Able to control staff, Male and Female. Good general knowledge of engineering. 953/595, C. & D. Office.

**A POSITION** required as Commercial Manager with manufacturing firm. Experienced in Accountancy, Office-Management, Stock-Control and Planning. 953/591, C. & D. Office.

**B.Sc., Pharm., M.P.S. (30)** seeks responsible position with progressive manufacturing firm. Excellent experience in manufacture of ethical products with well-known firm. 954/615, C. & D. Office.

**CHEMIST B.Sc. (1945)** desires position with manufacturing firm (preferably cosmetics). 950/494, C. & D. Office.

**COSMETICS and Perfumery, etc.** Miss L. E. Sargent—20 years' experience with Coty (England) Ltd.—seeks re-engagement either as Buyer or Organiser of Sales and Advertising. Reply 189 Gunnersbury Park, Ealing, London, W.5.



**EXPERIENCED** Salesman desires Appointment as Representative or Sales Organiser London and Provincial Chemists. Connexion over 5,000. Retail and Wholesale. Knowledge of Pharmaceutical and Food Products, Perfumery and Soaps. Salary basis, own car. Locate anywhere; Worker. 954/597, C. & D. Office.

**EXPORT** Manager seeks situation; 25 years' experience. Good organiser; sound knowledge Sales, Overseas Markets, Drugs, Chemicals, Gums Waxes, Customs, Correspondence, Banking. Had experience Representative overseas. Useful Transatlantic continental connexions. Moderate salary. 954/603, C. & D. Office.

**GENTLEMAN**, 35, Ex R.A.M.C., seeks progressive post with reputable House. Home or overseas. 6 years' supply organisation and disciplinarian duties. 10 years' High-class retail pharmacy. 954/610, C. & D. Office.

**M.P.S.** (29) Demobilised, requires position as representative to established manufacturing or wholesale house. Good appearance and address. Any area. \*953/592, C. & D. Office.

**PHARMACIST** (29) Just demobilised (Lieut. R.N.V.R.) desires post with manufacturing or wholesale firm in any capacity calling for drive and initiative. The advertiser wishes to gain widest possible experience in manufacturing and wholesale technique and is keen to have opportunity for further study. Interview any time. Nix, 18 Mayflower Road, Stockwell, S.W.9.

**PHARMACIST**, early thirties, now holding responsible executive position, seeks progressive post with wholesale or manufacturing firm of repute. Retail; large industrial works and laboratory background. Keen and adaptable. 954/611, C. & D. Office.

**PURCHASING** and Forwarding Representative. Residing London, prepared undertake duties U.K. for firm abroad. Wide range of goods. Reliable, experienced, own car. Reply by Air Mail. 953/596, C. & D. Office.

**REPRESENTATIVE**, ex R.A.F. N.C.O., age 31, single, requires post with firm of repute. Pre-war travelling experience, disengaged now. Any territory. Please give particulars Peter Smith, 2 Highbury Parade, Weston-super-Mare.

**REPRESENTATIVE** with up-to-date chemist connexions (Lancs and Ches) open to represent. Good Repeat Lines, Commission Basis. 954/599, C. & D. Office.

**SALES** Office Appointment (Home or Export) desired by Pharmacist, age 35, 14 years' retail, 5 years' industrial, manufacturing, packaging and Sales liaison. 954/600, C. & D. Office.

**TABLET** Maker, Age 42, with 24 years' experience in a well-known drug house, requires employment in Essex preferably. Please reply stating terms and prospects. 954/607, C. & D. Office.

## AGENCIES

7/6 for 36 words or less, 2d. for every additional word.

**AGENTS** wanted on good commission basis to sell fancy goods, plastic cosmetic bags, etc. Highest references essential. Replies Box No. 670, Dorland, 18/20 Regent Street, S.W.1.

**YOUNG** Man with valuable and established connexion with Drug Trade in E. Anglia requires Agencies, or Post as Representative. 951/513, C. & D. Office.

## PREMISES TO LET

**CORNER** Shop premises, main London Road, West Cliff-on-Sea. Empty due to 1940 evacuation. Trading as chemist for 20 years. Fitted ready for immediate opening. Rental £250 p.a. exclusive; fittings £500. 60 Pretoria Road, Leytonstone.

## EXPORT TRADE

**AGENCY** or Distributorship in India of products saleable through Chemists and Druggists desired by United Medical Stores, Ltd., 16 Bow Lane, Calcutta. Telegraphic address, "United Bankers, Mercantile Bank of India, Ltd. Refer from May & Baker, Ltd., Dagenham, London; Burgoyne Burdidges, Co., Ltd., East Ham, London; Dakin Bros. Ltd., 44-50 Southwark St., London.

**EXPORT**. Small firm of Manufacturing Chemists (London) marketing proprietary and toilet with established connexions abroad require a manager. Knowledge of languages essential; view to travel. Apply 953/585, C. & D. Office.

**EXPORT TRADE**. Qualified Chemist, with business experience, wishing to arrange move to South Africa, offers services in his capacity to firm of repute, with a view to promoting business. 951/496, C. & D. Office.

**OLD** Established British Merchants in London authorised to import medicines, into Portugal open to receive offers for agencies of medicine that area. Best references. 954/593, C. & D. Office.

**PALESTINE & TRANS-JORDAN**. Mr. Jakobsohn, wholesale druggist of Tel-Aviv present in London, wishes to contact manufacturers of pharmaceuticals, sundries, rubber goods, products and perfumery with a view to distribution and representation. Please write or telephone 15 Inglewood Road, N.W.6. Telephone: Ham 2055.

**PHARMACEUTICAL** firms which are not represented in Iraq are invited to communicate with Faiha Drug Co., Ltd., Khan Haj Daud Street, Baghdad, Iraq. Remarkable turn-over guaranteed. Very excellent bank and business references on demand.

**RELIABLE** firm with good connections: Wholesale and retailers seeks Agency of British Manufacturers of Pharmaceuticals, Chemical Surgical Instruments, Dressings, Glassware,metics and Perfumes. Address replies to Box 953/582, C. & D. Office.

**WELL-KNOWN** and introduced Swedish exporters desire to obtain Agency, or import goods of the following lines: Perfumery, Cosmetics, Hairdresser's Sundries, Plastic Canteen references: Skanska Banken Malmö fumerie Gust Wulf A.B. (Leverantör De S. Roi De Suede), Malmö, Sweden, Postbox 471.

**WELL-KNOWN** import and agency firm in toilet goods and pharmaceutical trade contact with exporters. We are interested in kinds of chemicals, drugs, cosmetics and products. First-class bank references available. Please reply to Messrs. C. G. Livijn, Stora Ny 5 Stockholm, Sweden.

**WELL-KNOWN** and introduced Egyptian importers desire Agency in the following: Hairdresser's Sundries, Cosmetics, Plastic and Goods. Pharmaceutical and Chemical Products. British Bank references on application. answer by Air Mail. Post Box 1351, Cairo.

## MISCELLANEOUS SALE

12/6 for 60 words or less, 1/- each additional 10 words

**FOR** Disposal, 20 gross 1-oz. squat jars and 20 2-oz. squat jars, free delivered, free I. Write H.S. Bottle Co., Ltd., 15a Whitcomb Pall Mall East, W.C.2.

**SANITARY** Towels (Wool), size 2, brand retail 2s.; 18s. doz. carr. paid; 20 950/465, C. & D. Office.

**GROSS** Amber Winchester's Bakelite Barington, Hauman & Son, 37 Lewisham Lewisham, S.E.13.

## APPOINTMENTS

**ASSISTANT Pharmacist (temporary)** required, male or female, must have had recent hospital experience, with M.P.S. or higher qualification. Salary according to the B.H.A. scale, F.S.S.N.H.O.(C) in force.

Application, with copies of three testimonials, should be made to the Secretary-Superintendent, Royal Gwent Hospital, Newport, Mon., before March 9, 1946, from whom full particulars can be obtained.

## ESSEX COUNTY COUNCIL

### APPOINTMENT OF FIRST ASSISTANT PHARMACIST

Applications are invited from members of the Pharmaceutical Society for the temporary appointment of First Assistant Pharmacist (resident) at the Essex County Council Hospital, Black Notley, near Braintree.

Salary £250 per annum plus war bonus.

Applications, stating age, qualifications and experience, accompanied by copies of not more than three recent testimonials which will not be used, marked "Appointment of First Assistant Pharmacist" should be addressed to the County Hall, Chelmsford, as soon as possible.

JOHN E. LIGHTBURN,  
Clerk of the Essex County Council.

## SANT MARY'S HOSPITAL FOR WOMEN AND CHILDREN

UNDER ROAD, PLAISTOW, LONDON, E.13.

**ASSISTANT DISPENSER** required, Cert. Dispensaries Hall. Salary as recommended by British Hospitals Association, with lunch p.a. Hours 9.30 a.m. to 5 p.m. Saturdays 9 a.m. to 1 p.m. No Sunday duty. Applicants with copies of recent testimonials giving education, age and experience to be sent to the Secretary as soon as possible. February 18, 1946.

## SOUTHEND MUNICIPAL HOSPITAL

ROCHFORD, ESSEX

The Health Committee of the Council invite applications for the post of Non-Resident **ASSISTANT PHARMACIST** at the above Hospital. Candidates should hold one of the acceptable qualifications of the Pharmaceutical Society. The salary is at the rate of £320 per annum, rising by four annual increments of £15, to a maximum of £400 per annum, inclusive of War Bonus. The provisions of the Local Government and Other Officers' Pensions Act, 1937, will apply, and the appointed must satisfy the Council's Medical Examiner.

Application forms, which can be obtained from the Medical Superintendent of the Hospital, may be completed and returned to him as soon as possible.

ARCHIBALD GLEN,

Town Clerk.

**LOCAL** Assistant Pharmacist required immediately at Southend Municipal Hospital, Rochford. Salary £7 7s. per week, plus war bonus. Apply, Medical Superintendent. Tel. No.: Rochford 56278.

## SURREY COUNTY COUNCIL

ST. LUKE'S HOSPITAL, GUILDFORD

**ASST. PHARMACIST.** Temporary. Must be M.P.S. or Ph. Salary £250 × £10—£300 p.a. plus bonus 23s. p.w. male, 18s. 6d. p.w. female. Apply to Medical Superintendent.

## THE MUNICIPAL GENERAL (ST. LUKE'S) HOSPITAL, BRADFORD

**APPLICATIONS** are invited from qualified women for the post of Junior Assistant Pharmacist, preference will be given to candidates with pharmaceutical Degree or Ph.C. - Diploma. Salary £260 + war bonus £48 2s. per annum. Applications to the Medical Superintendent, Bradford Municipal General (St. Luke's) Hospital.

## WILLESDEN GENERAL HOSPITAL

HARLES DEN ROAD, LONDON,  
N.W.10.

**APPLICATIONS** are invited for the post of Assistant Pharmacist (lady). Salary £300 per annum, with lunch and tea, superannuation and uniform. Apply, with full particulars and references, to General Secretary.

## BUSINESSES WANTED

7/6 for 40 words or less, 2d. for every additional word.

**DRUG STORE** required with living accommodation. Would consider without if in good position. Any area, would prefer South Coast if possible. Capital available over £2,000. Would consider empty shop to rent or buy. Please write to S. Levy, 18 Hallam Road, Godalming, Surrey.

**HILLIER, PARKER, MAY & ROWDEN**, Surveyors and Valuers, 77 Grosvenor Street, W.1, have applications for several sound and progressive single-shop Businesses occupying premier trading positions in London and Provinces, or a Group Concern would be seriously considered. Owners contemplating sale or their solicitors are invited to write for further information to Hillier, Parker, May & Rowden, 77 Grosvenor Street, W.1.

**WANTED**, Manchester district or Lancashire; coastal town preferred. High or middle-class Pharmacy with or without optics. Turnover £3,000 upwards or prospects of increasing. Living accommodation preferred but not essential. Cash available. Replies in confidence to 951/528, C. & D. Office.

## SHOPFITTING

**MYERS OF OLD ST.** THE PHARMACY FITTERS  
ALL PHARMACY FITTINGS. New and Secondhand  
From the single unit—to the complete Pharmacy  
Write, 'Phone or call  
MYERS, 133-5 & 141-7 OLD ST., E.C.1. Phone: CLEL 6381



## BUSINESSES FOR DISPOSAL

7/6 for 40 words or less, 2d. for every additional word.

**B**USINESS for Disposal. A small Herbal and Drug Store with living accommodation, in a busy East Anglian town. Retiring from business after 26 years. Price £350. For particulars apply 952/534, C. & D. Office.

**C**ARDIFF. Neglected Chemists Business taking £70 weekly. Kodak Agency, Optics if required; part living accommodation, whole later; well fitted and stocked. Immense scope. All £1,500. Quick sale, £750 cash and three years' deferred payment possible. Rent 50s. per week. 953/594, C. & D. Office.

**D**RUG STORE—pre-war chemist—nearest opposition 1/4 mile. Croydon area; good opening. N.H.I. Turnover £2,600. Rent £46. Good living accommodation; newly decorated. Price £750. S.A.V. about £400 or all at £1,130. 953/587, C. & D. Office.

**M**IDLANDS. Fine old-established Chemists' Business for sale. Central, spacious shop, beautifully fitted, up to date, well stocked. All cash and full wine licence, with or without freehold property. Full particulars given from properly audited books at interview. Apply 953/566, C. & D. Office.

## WANTED

7/6 for 36 words or less, 2d. for every additional word.

**A**UTOMATIC Cream Filler wanted at once; big price paid. Shavex Co., Bavaria Road, Holloway, N.19.

**C**HIROPODY Felt. Adhesive. Sizes 3" x 4", 4" x 6". Each in envelope or by the sheet. Thin, thick and medium qualities. Wanted immediately by Wholesale Distributing House. 953/589, C. & D. Office.

**M**ICROSCOPES. We do not pay high prices for old junk, but for fine modern apparatus our prices are the best in the trade. If you want a dependable overhauled microscope, consult us. One criticism in ten years, and that speedily rectified—that is our record; Wallace Heaton, Ltd. (Mayfair 7511, ask for Mr. Cole), 127 New Bond Street, London, W.1.

**P**EARL Essence. Please detail any supplies available—large or small. Send full particulars to 954/612, C. & D. Office.

**P**LANT required. 1 Steam Jacketed Copper Vacuum Still, 40/60 gallon capacity with vacuum gauge, thermometer pocket, swan neck, multitubular or double surface condenser, twin vacuum receivers and suitable dry vacuum pump. Also: 1 Rotary Tablet Machine B.B.27 or 33 punch head; 1 Rotary Tablet Machine D.3 and 1 Copper Tank, cylindrical, about 120 gallon capacity, fitted with lid and draw-off cock. Apply, 948/412, C. & D. Office.

**P**OTASSIUM Bromate, Ammonium Sulphate Crystals, Trisodium Phosphate, Triethanolamine Wanted, small and large quantities for home and export; also 100 gross 2-oz. and 3-oz. bottles wanted. Send sample, "J" Products, 22 Queen Street, Belfast.

**R**OSE OTTO. Must be absolutely pure unadulterated. Highest prices offered. Small quantities entertained. Send particulars of source, etc., etc., Picot Ltd., 191 Hammersmith Road, London, W.6. Rib. 3336.

**S**ULPHONATED Fatty Alcohol Powder required in ton lots immediately. 946/842, C. & D. Office.

**S**ULPHONATED Lauryl Powder required immediately. Any quantities. 953/578, C. & D. Office.

**T**HIOLYCOLLIC ACID wanted. Small and large quantities, both for home and export. W. H. Sharpe, 4A Clifton Park Avenue, Belfast.

**U**RGENTLY WANTED up to 500 gross 2-oz. vials or bottles with or without corks. Immediate cash payment. Campbell, 2 Shepherd Street, Mayfair, W.1.

**U**RGENTLY required, 8-oz. and 24-oz. bottles of metal or bakelite screw cap in clear or a glass and in round, oval or rectangular shape. Quantity accepted. State price and quantity available with sample to R. Thomson, Abbey Street, London, W.1.

**W**ANTED. 2 Powder Mixers, 1 and 2 ton, Galloway or similar. Hygienic Chemical Co., Duplex Works, Kinnerton Street, London, S.W.

**W**ANTED 4-oz. Medical Flats or Bowls. Bottles, amber or white flint, 100 gross 1,000 gross; will collect and pay promptly. 942/212, C. & D. Office.

**W**ANTED. 1-oz. bottles, small or large quantity. Machine made. Highest cash paid. W. 947/385, C. & D. Office.

**8-OZ.** Plain Medicals, 8-oz. ribbed Ovals, 2-oz. Panels; divisioned cartons to hold any of Samples and prices to S. Tatlow & Co., Ltd., Edgemon, Sheffield.

**26-OZ.** and 13-oz. Wine or Champagne Bottles required. 625/524, C. & D. Office.

## PARTNERSHIPS

**P**ARTNERSHIPS—early succession. Nr. Croydon Drug Store; pre-war chemist. Good opening N.H.I.; no near opposition. Can offer full accommodation to married couple, owner wishes retire for health reasons. Turnover £2,600. 953/589, C. & D. Office.

**P**ARTNERSHIP in wholesale or manufacturing or allied business desired by qualified Chemist or near London. Will invest up to £3,000. 954/608, C. & D. Office.

## BUSINESS OPPORTUNITIES

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**A**DVERTISER is desirous of acquiring a whole part interest in a manufacturing where chemists and druggists and hairdressers's business. Ample capital available. Proposals involving continued employment of vendor considered. Apply in first instance to Landau, 52 Holborn, W.C.1.

**L**ET us pack for you all kinds of Liquids, Powders, Tablets; give us bulk, we give you the finished article; also may be able to help packing difficult bottles, jars, etc. 943/233, C. & D. Office.

**O**LD-ESTABLISHED Specialists in the manufacture of Proprietary Products offer a comprehensive service covering manufacturing, tableting and despatches of proprietary and products. Please give brief details of requirements and products in confidence. Box 700, Hann & Goodman, Ltd., 69 Fleet Street, London, E.C.4.

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If you are responsible for supplying doctors, nursing homes or hospitals with anaesthetic ether and chloroform you can recommend Baker's Anaesthetic Ether and Baker's Anaesthetic Chloroform with every confidence.

Their manufacture is subject to stringent laboratory control and both products conform to the highest standards for anaesthetic purposes.

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## **An Explanation . . . and Apology**

War-time shortages of materials have recently caused delays in our deliveries and have forced upon us the necessity of confining the supply of the large size exclusively to requirements for Physicians' private prescriptions, Hospital and N.H.I. dispensing purposes.

FELSOL is not discontinued, the 2/10 size remains available, but this too must, for the time being, at least, be regarded as in short supply.

Gratefully acknowledging the co-operation of our many Pharmaceutical Friends, we apologise for any inconvenience these temporarily enforced conditions, beyond our control, may impose and give the assurance that every effort is made to ensure the fairest possible distribution by executing all orders in strict rotation.

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